

BIOLOGICAL AIR SAMPLER

AIRWEL+



Air Sampler

Separated Battery
Charger by Induction

User Manual

Revision 5

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Note: The manufacturer reserves the right to change or modify production and data given in this manual. This catalogue may not be reproduced, even partially, without prior permission.

GENERAL INFORMATION

- Before installing, please read the instructions of this manual in order to properly perform the installation, commissioning and maintenance. Each operation described in this manual is believed to be correct.
- In case of breakage or failure of the equipment, contact only the authorized maintenance companies or the manufacturer.
- The use of spare parts other than the original releases the manufacturer from any liability and compensation to the customer.
- The manufacturer accepts no responsibility for any damage to persons and / or property resulting from non-compliance with the rules regarding health and safety.
- The safety instructions provided in this manual supplement, but not replace, those in force in the country where the device is installed. It is assumed that the operators to the device are aware of the safety requirements in force in their own countries.
- Never attempt to repair hastily that could affect the proper operation and safe use of the device.
- If in doubt about the correct functioning of the device, please contact your authorized maintenance companies, or directly the manufacturer, to obtain the necessary information.
- The manufacturer shall not be responsible in case of any tampering with the device by the customer that will be, in this case, the only responsible to the competent authorities.
- CAUTION. DO NOT EXPOSE THE AIR SAMPLER TO RAIN OR HUMIDITY TO PREVENT FIRE OR SHOCK HAZARD.
- THE CASE OF THE AIR SAMPLER SHOULD BE OPEN BY QUALIFIED STAFF ONLY.
- If the instrument is dropped or suffers a violent collision it may be damaged.

OPERATOR'S WARNINGS

- Operators responsible for the use of the control device must have the appropriate technical skills to perform the specific duties assigned to them.
- The customer will be solely liable for damage caused by improper storage of the product during any periods of non-use. The customer will also be responsible for any damage resulting from any changes made to the product that has not been previously approved.

PART 1 - BRIEF INSTRUCTION

MANUAL MODE

The operator must select only the sampling volume.

AIRWEL			
SN: XXXX			
Rev. XX			
↑	↓	←	→

Switch on the instrument

Holding down the key ("↑") to switch on the instrument.

Screen 1

Name of the instrument (AIRWEL)

Serial number (XXXX) of the instrument.

AIRWEL (Date and Time) MANUAL MODE Volume (l) OFF CFG VOL GO!			
↑	↓	←	→

Screen 2

Name of the instrument (AIRWEL)

Date and Time

Manual Mode: Volume (l)

Press GO! ("→") to start sampling or VOL ("←") to change the volume

Select volume			
			XXX l
+	-	ESC	OK
↑	↓	←	→

Screen 3

The display shows "Select Volume:".

Select volume pressing keys + or - ("↑", "↓") (Values configurable: 30, 50, 60,

90, 100, 160, 200, 283, 320, 400, 500, 700, 1000).

Press OK ("→") to confirm the value

AIRWEL (Date and Time) MANUAL MODE Volume (l) OFF CFG VOL GO!			
↑	↓	←	→

The display shows the initial screen.

Press GO! ("→") to start the sampling.

SAMPLING			
Total Volume (l)			XXX
Flow (l/min)			XX
Progress (%)			XX
PAUSE			ESC
↑	↓	←	→

Screen 4

The display shows the sampling data in real time:

- Total volume (l)
- Flow (l/min)
- Progress (%)

SAMPLING COMPLETE			
PRINT		QUIT	
↑	↓	←	→

Screen 5

At the end of the sampling, the display visualizes "COMPLETE"

Press PRINT ("↑") to print data

Press QUIT ("→") to exit

AIRWEL (Date and Time) MANUAL MODE Volume (l) OFF CFG VOL GO!			
↑	↓	←	→

Switch off the instrumen

Press OFF ("↑") to switch off the instrument

AIRWEL SHUTDOWN			
↑	↓	←	→

AIR VOLUME SAMPLING

SAMPLING (Delay-Countdown)	
ESC	
↑	↓
←	→

The display shows the delay countdown, if set

Press ESC ("→") to suspend the countdown

SAMPLING	
Total Volume (l)	XXX
Flow (l/min)	XX
Progress (%)	XX
PAUSE	ESC
↑	↓
←	→

The display shows the sampling data, in real time:

- **Total volume**
- **Air Flow**
- **% of sampled volume**

The LED, on the left side of the visual display shows the sampling status, according different numbers of flashes.

N° Flashes /	Description /
1	Waiting delay times
2	Sampling in progress
3	Sampling pause

Sampling can be suspended or terminated at any time using the PAUSE and ABORT as described below.

SAMPLING COMPLETE	
PRINT	QUIT
↑	↓
←	→

At the end of the sampling, the display visualizes "COMPLETE"

Press PRINT ("↑") to print the data

Press QUIT ("→") to exit

SAMPLING	
PAUSE	
RESUME	ESC
↑	↓
←	→

Press PAUSE ("↑") to temporarily suspend the operation of sampling

Press RESUME ("↓") to resume sampling

Press ESC ("→") to finish the sampling cycle

PART 2 - INTRODUCTION

INTRODUCTION

- This manual provides all the information concerning the equipment.
- Main use is to perform sampling of the air in the surrounding environment.
- The air passing through an orifice is impacted on an appropriate container that collects bacteria or other organic substances possibly present in the sampled air.

PRODUCT DESCRIPTION

AIRWEL air samplers are equipped with a powerful airflow of 100 or 200 l / min max.

Places particularly interested in their use are:

- Cleanroom pharmaceutical industry or hospitals
- Residential and production environments
- Transformation of food and pharmaceutical products

PRINCIPALS TECHNICAL CHARACTERISTICS

∅ plate	60 mm / 90 mm / Bactair*
Battery	Ni-MH 12 VCC 2100 mAh
Air flow	100 l/min or 200 l/min (depending of model)
Operator display	LCD 128X64 back-light
Operator key-board	Membrane, 4 keys
Integrated reader	RFID 13.56 MHz (Optional)
Bluetooth® Module	Optional
Barcode scanner	Optional
Battery charging	Induction wireless charging 18 VCA 15 W
Auxiliary output by battery charger	(USB Port) 5 VCC 500 Ma
Operating	-10°C ÷ +40°C

*Optional

REFERENCES FOR AIRWEL PLUS Packages.

Code	Name	Model	Air Flow (lt/min)	Plate	Version
BCLO1072	Pack AIRWEL	PLUS	100L / min	90mm	
BCLO1076	Pack AIRWEL	PLUS	100L / min	55mm	
BCLO1073	Pack AIRWEL	PLUS	200L / min	90mm	
BCLO1077	Pack AIRWEL	PLUS	200L / min	55mm	
BCLO1078	Pack AIRWEL	PLUS	100L / min	90mm	w/ SELFTEST
BCLO1080	Pack AIRWEL	PLUS	100L / min	55mm	w/ SELFTEST
BCLO1079	Pack AIRWEL	PLUS	200L / min	90mm	w/ SELFTEST
BCLO1081	Pack AIRWEL	PLUS	200L / min	55mm	w/ SELFTEST

Sampler PLUS



MAIN COMPONENTS OF THE SAMPLER AND DIMENSIONS

The sampler is mainly composed by one structure with one head installed directly on the instrument. This include an appropriate capsule with agar or other substances sensitive to the air intake.

The power supply is rechargeable by induction with autonomy of at least 12 hours of activities.

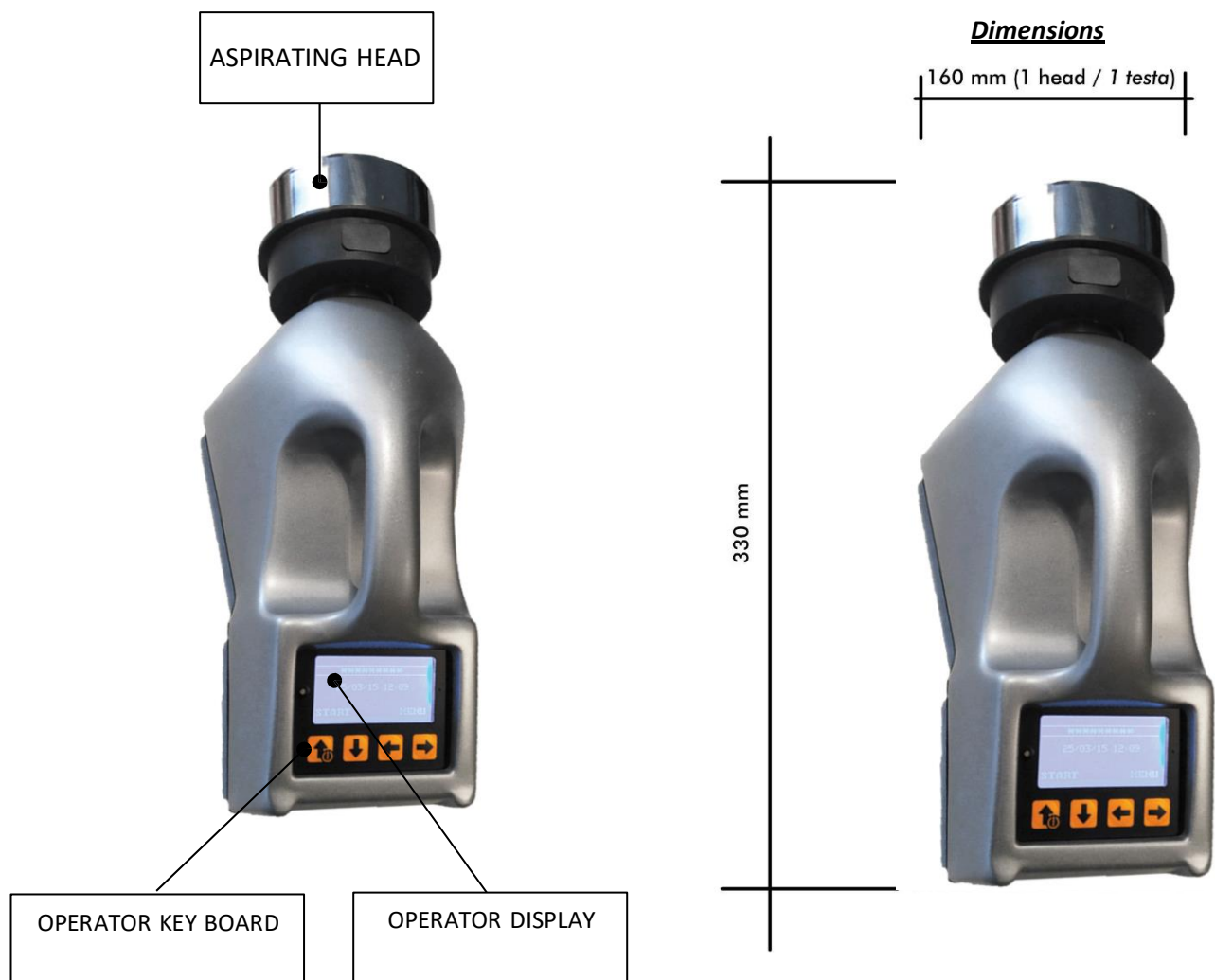
The control electronics is realized with low-power microprocessors of the latest generation and integrates the control of the absorption of the motor (to optimize the amount of the volume of the intake air).

A special interactive keyboard is used for programming the sampling parameters.

Data download and programming is done with wireless technology (Bluetooth®).

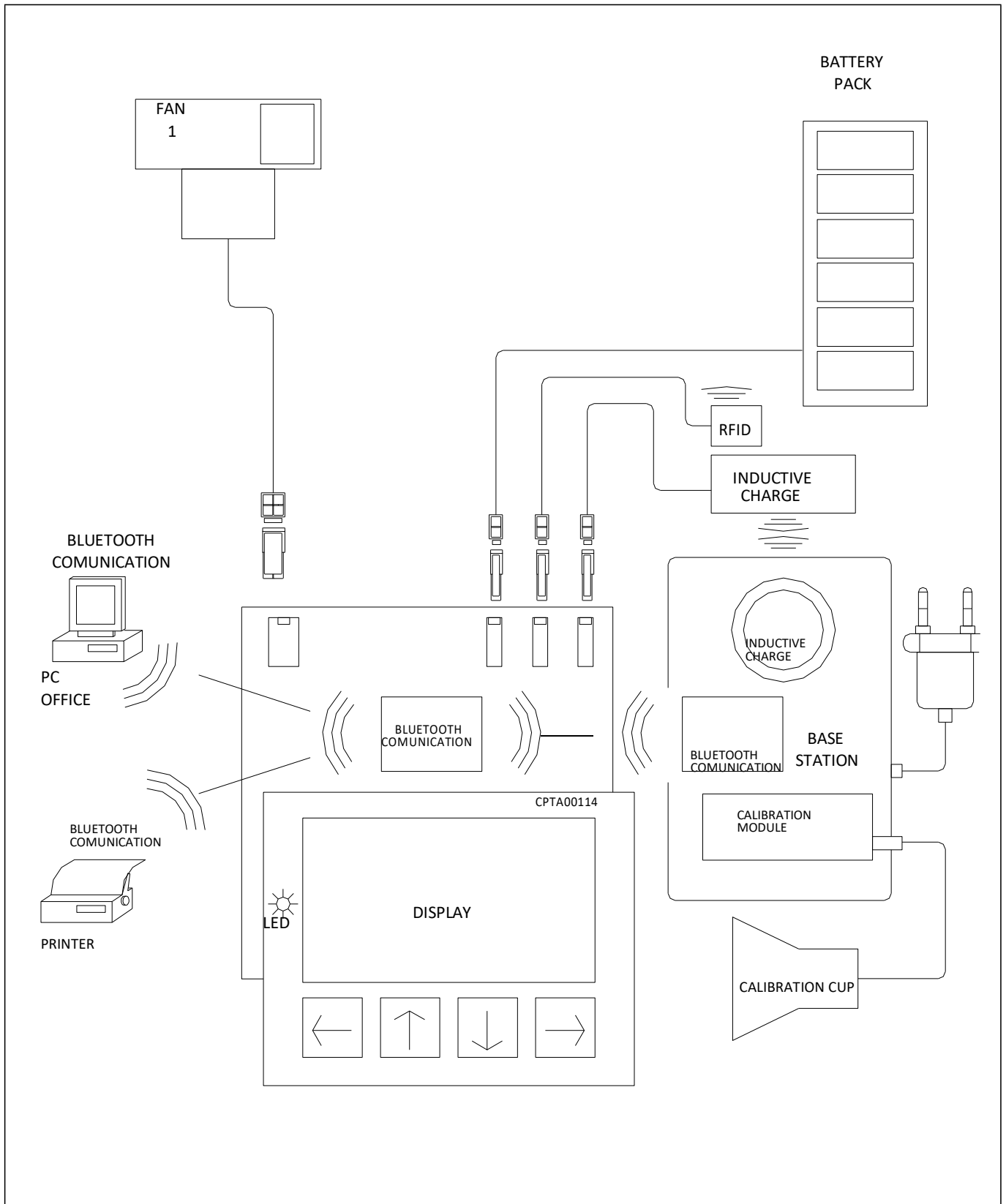
The support base integrated unit induction charging (wireless) comes with its power transformer.

The printer (optional) is powered by rechargeable batteries, the acquisition of print data is via a wireless (Bluetooth®).



DIAGRAMS

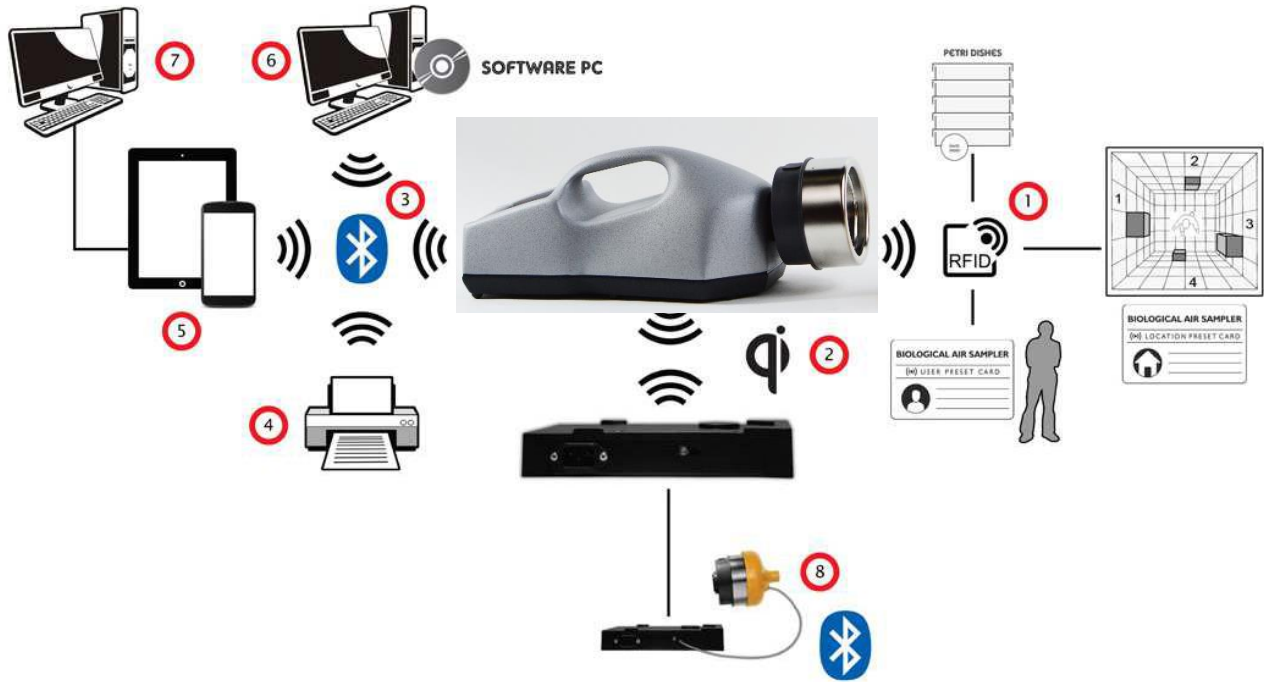
The diagrams with the principal components of the air sampler.





TRIO.BAS
BIOLOGICAL AIR SAMPLER

DIAGRAM WITH THE PRINCIPAL COMPONENT OF THE AIR SAMPLER



1. RADIO FREQUENCY IDENTIFICATION (RFID) FOR INSTRUMENT, OPERATOR, LOCATION, PLATE (GMP-GLP)
2. WIRELESS INDUCTION BATTERY CHARGER
3. BLUETOOTH COMMUNICATION PROTOCOL
4. PRINTER BLUETOOTH TRANSFER DATA
5. TABLET / SMARTPHONE BLUETOOTH TRANSFER DATA
6. PC BLUETOOTH TRANSFER DATA
7. PC CABLE CONNECTION TRANSFER DATA
8. CHECK CALIBRATION SYSTEM ON SITE BLUETOOTH *

NO PLUG AND EXTERNAL CONNECTIONS

* ANNUAL CALIBRATION IS REQUIRED FOR THE DEVICE ONLY AND IS NOT REQUIRED FOR THE SELF TEST INDUCTION BASE

COMPONENTS CHARACTERISTICS

The equipment has been designed to meet the main requirements of the FDA for environmental monitoring, as indicated in the guidelines on Sterile Drug Products produced by Aseptic Processing.

It is fully compliant with national and international standards for monitoring ambient air.

There is also a certificate of ATEX intrinsically safe protection class corresponds to the standard "EN 60079".

The Rules Governing Medicinal Product In The European Community Vol. IV: Guide to Good Manufacturing practice for medicinal products, 199207.

ISO EN 16498-1 and 2 Clean rooms and associated controlled environments-Biocontamination control part 1 and Part 2 (Ref. Number: ISO 14698 -1:2003(E)).

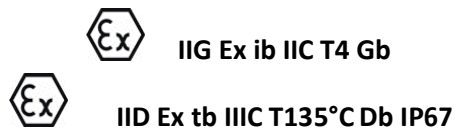
CE MARK

The standard equipment is certified to the following standards:

- EN 61010-1-2010 Safety requirements for electrical equipment for measurement, control and laboratory use – Part1: General requirements
- EN 61326-1:2006 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part1: General requirements
- EN 62321:2009 Electrotechnical products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated ethers).

ATEX CERTIFICATION

The equipment carries, in ATEX version, the following marking:



Operation of this ATEX certified sampler is permitted in hazardous areas for the presence of gas and dust classified as zone 1.



The power supply, any printer and accessories, if free ATEX marking, must not be used in areas at risk of explosion.

The equipment can only be used for the air sampling; eventual disassembly etc. must be carried out in a safe area.

GENERAL FUNCTIONS

SWITCH ON THE SAMPLER





To switch on the sampler hold the key .

DISPLAY AND MENU MANAGEMENT

The instrument is provided of operator display and keyboard.

To access the menu use the appropriate keyboard buttons as shown in Table:



 <p>OFF/UP</p> <p>Switching on/off Scrolling menu items upwards Number/Letter increasing</p>	 <p>CFG/DW</p> <p>Access menu Scrolling menu items downwards Number/Letter decreasing</p>	 <p>VOL/ESC</p> <p>Set Volume Exit Number/Letter addition</p>	 <p>GO!/OK</p> <p>Start sampling Enter Number/Letter cancellation</p>
--	---	---	---

To data entry, proceed as follows:

Manual data entry (by keyboard)	Manual selection (by keyboard / <i>da tastiera</i>)	Automatic data entry (by RFID or Barcode)
<ul style="list-style-type: none"> • Select the message "→", the message flashes • Number/letter addition by pressing "←", • Delete number / letter by pressing the "→" • Change the number / letter with the "↑", "↓" • Confirm the data holding down "→" • Cancel the data holding down "←" 	<ul style="list-style-type: none"> • Select the message "→", the message flashes • Change the number / letter with the "↑" "↓" • Confirm the data by pressing "→" • Cancel the data by pressing "←" 	<ul style="list-style-type: none"> • Move the device TAG closer to the RFID reader (the system automatically recognizes the type of card read or read the barcode identifier by scanner)

MENU AND SUB-MENU LIST

ITEMS	DESCRIPTION
GO!	<u>In manual mode:</u> Press to repeat the same volume of prior sampling <u>In automatic and secure mode:</u> Press to access at sampling menu
	START SAMPLING (in automatic mode) Press OK to start sampling
CFG	Press to access the programming menu and inventories
VOL	Press to modify volume: the volume of aspirated air can be modified according to programmed values.
OFF	Press to switch off the instrument
SHOW	Press to access inventory and system info
<ul style="list-style-type: none"> • SAMPLING • INVENTORY 	Press to show the sampling data logs
<ul style="list-style-type: none"> • EVENTS • INVENTORY 	Press to show the events logs
<ul style="list-style-type: none"> • SYSTEM INFO 	Press to show the information about the instrument
CHANGE	Press to access the programming menu
	INSERT PASSWORD The item is protected by password
<ul style="list-style-type: none"> • OPERATIVE MODE 	Press to setting the operative mode: MANUAL, AUTOMATIC and SECURE
<ul style="list-style-type: none"> • PLACES/ VOLUMES 	Press to define the data of sampling place (max. 10)
	TEXT Can be defined a descriptive text for the place
	ID Can be defined an ID for the place
	VOLUME The volume of aspirated air can be modified according to programmed values (30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)
	SET DELAY The air sampler can be programmed to start sampling after a programmable delay (from 1 to 120 minutes)
	SET FRACTION NUMBER The sampling can be divided into a programmed number of cycles
	SET FRACTION TIME
	SET HEAD MODE (for DUO and TRIO models / per modelli DUO e TRIO) The sampling can be contemporary (activation of all the heads) or sequential (activation starting from the lowest number)

ITEMS	DESCRIPTION / DESCRIZIONE
<ul style="list-style-type: none"> USERS 	Press to define the data for the user (max. 10)
	TEXT Can be defined a descriptive text for the user
	ID Can be defined an ID for the user
<ul style="list-style-type: none"> DATE/TIME 	Press to set date and time of the instrument
<ul style="list-style-type: none"> LANGUAGE 	Press to set language of instrument
<ul style="list-style-type: none"> SYSTEM RESTORE 	Press to access the menu for restore factory settings and cancel archives
	RESTORE FACTORY Press to restore factory settings
	CLEAR INVENTORY Press to erase sampling data logs and events logs
	CLEAR PLACES/USERS Press to erase places and users in memory

SHORT EXPLANATION OF VISUAL DISPLAY SYMBOLS

ABBREVIATION	SHORT EXPLANATION
S.N.	Serial Number
REV	Revision
UP	UP
DW	DW
VOL	Volume
OFF	Switching off
CFG	Configuration
GO	Go on
OK	Enter
Flow (l/min)	Air flow litres per min
ESC	Exit
PROGRESS (%)	% Air sampling progression
PRINT	Printing
SAMPLE ID	Sample Identification
DELAY COUNTDOWN	Starting delay (in seconds)
RFID	Radio Frequency Identification
INV	Inventory
Fraction Num	Number of interval time sampling
FR. Time	Time between each sampling
Missing Data	Missing data (User, Place or Sample-Id) at the start of sampling
SHUTDOWN	Shutdown in progress
ADD	Addition
REM	Delete
+	Increase
-	Decrease

PRELIMINARY INSPECTION

Plate holder adjustment

Check the housing for Contact plate or Petri dish are correct. If not, adjustment the position of the holder using a key.

Visual presentation

The indicated procedures should be followed to verify that the air sampler is working properly.

The battery must be charge about 4 hours before testing the air sampler.

The screen should be on after pressing the left button of the key board for a couple of seconds and an automatic visual presentation should appear.

Press GO! to start the air sampler that will show the parameters of the last aspirating cycle.

Table or floor tripod or trolley stand

Fix the sampler (if requested) to the tripod or position it in vertical position on the trolley stand.

Air volumes

The sampler is supplied with standard air volumes. The selection of the volume is made by using the specific sub-menu. Different volumes of air are suggested. Examples:

10 / 100 litres of air in contaminated areas

200 / 300 litres of air in medium contaminated areas

500 / 1.000 litres of air in Cleanroom.

SETTING FIRST SWITCHING ON

The display shows the general configuration screen. (Default Language English).

Date/Time

Date/Time				
Language				
UP	DW	ESC	OK	
↑	↓	←	→	

The menu "**Date/Time**" allows defining date and of system.

Select the menu item "**Date/Time**" using the keys UP and DW ("↑", "↓") and pressing OK ("→").

Hours:				
Minutes:				
Day:				
Month:				
Year:				
UP	DW	ESC	OK	
↑	↓	←	→	

The display shows the menu for date and time of system

Select the item **Hours** using the keys UP and DW ("↑", "↓") and pressing OK ("→").

Hours:				XX
Minutes:				
Day:				
Month:				
Year:				
+	-	ESC	OK	
↑	↓	←	→	

The item Hours flashes:

- Select the hours pressing keys + and – ("↑", "↓")

Confirm the data by pressing OK ("→") or annul by pressing ESC ("←"). The display shows the Data/Time menu items

Hours:				
Minutes:				
Day:				
Month:				
Year:				
UP	DW	ESC	OK	
↑	↓	←	→	

- Select the item **Minutes** using the keys UP and DW ("↑", "↓") and pressing OK ("→").
-

Hours:				
Minutes:				XX
Day:				
Month:				
Year:				
+	-	ESC	OK	
↑	↓	←	→	

The item Minutes flashes:

Select the minutes pressing keys + and – ("↑", "↓")

Confirm the data by pressing OK ("→") or annul by pressing ESC ("←"). The display shows the Data/Time menu items.

Hours:				
Minutes:				
Day:				
Month:				
Year:				
UP	DW	ESC	OK	
↑	↓	←	→	

Select the item **Day** using the keys UP and DW ("↑", "↓") and pressing OK ("→")

Hours:				
Minutes:				
Day:				XX
Month:				
Year:				
+	-	ESC	OK	
↑	↓	←	→	

The item Day flashes:

Select the day pressing keys + and – ("↑", "↓")

Confirm the data by pressing OK ("→") or annul by pressing ESC ("←"). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Month** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month: XX
Year:
+ - ESC OK
↑ ↓ ← →

The item Month flashes:

- Select the month pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Year** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month:
Year: XXXX
+ - ESC OK
↑ ↓ ← →

The item Year flashes:

- Select the year pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Language

Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu “**Language**” allows defining the language of system and the date format.

Select the menu item “**Language**” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

The display shows the menu for the language of system

Select the menu item **Language** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

The item Language flashes:

Language:	XXX		
DateFormat:			
UP	DW	ESC	OK
↑	↓		

- Select the visualization language (ENG /ITA) pressing keys + and - (“↑”, “↓”) Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Data Format / (European, USA, Informatics)

Language:			
DateFormat:			
UP	DW	ESC	OK
↑	↓	←	→

Select the menu item **DateFormat** (format visualization date, European day/month/year, USA month/day/year or Informatics year/month/day) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Language:			
DateFormat:	XXX		
+	-	ESC	OK
↑	↓	↓	←

The item DateFormat flashes:

Select the format of the date (DMY /MDY /YMD, where D=day, M=month, Y=year) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Language:			
DateFormat:			
UP	DW	ESC	OK
↑	↓	←	→

↓ →




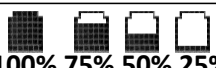
Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→


Use the key ESC (“←”) to exit menu

INITIAL SCREENS

Each time the instrument is turned on, the display shows in sequence the two screens below.

The icons represent




	RFID reader present
	Connection to printer available
	Connection to remote device (Bluetooth®) available
	Battery charge

 In case of low battery charge, the display shows the message "Attention! Low Battery Level ". Press "→" to return at main screen.

AIRWEL SN: XXXX Rev. XX
↑ ↓ ← →




Screen 1

General name of the instrument (AIRWEL)
Serial number (XXXX), if configured, of the instrument
Revision number (XX) of firmware installed on the instrument

 AIRWEL  
(Date and Time)
MANUAL MODE
Volume (l)
OFF CFG VOL GO!
↑ ↓ ← →

Screen 2 (Manual Mode)

General name of the device (AIRWEL) Date and Time
Volume (l) of the last sample

 AIRWEL  
(Date and Time)
LAST SAMPLE
Place / Volume (l)
OFF CFG INV GO!
↑ ↓ ← →

Screen 2 (Automatic Mode)

General name of the device (AIRWEL)
Date and Time
Place / Volume (l) of the last sample (undefined in secur mode)

Using the keys you can perform the following operations:

Sampling

Press GO! ("→") to start sampling (in manual mode) or to access at sampling menu (in automatic and secure mode)

Access programming menu

Press CFG ("↓") to access at programming menu

Access volume menu

Press VOL ("←") to modify volume (in manual mode)

Access inventory menu

Press INV ("←") to access at samples inventory (in automatic mode)

Switch off the instrument

Press OFF ("↑") to switch off the instrument

Note: the instrument switches off automatically after 5 minutes of inactivity

Date: 19/06/2015
User: User1
Place: Place1
Sample: 11111
Volume: 1000 l
UP DW ESC OK
↑ ↓ ← →

(Es. sample inventory)

TRIO. BAS
... SHUTDOWN ...
UP DW ESC OK
↑ ↓ ← →

LEVEL OF ACCESS (PASSWORD)

The air sampler manages 3 user levels protected by password:

- **Operator (default pwd: 1)**
- **Administrator (default pwd: 2)**
- **Factory Service** (available only from manufacturer)

Specific function are enabled for each user.

The operator has access to the basic functions of the instrument, such as: change operating mode, setting places/volume, user, date and language.

The administrator also to those of the system, such as system restore and diagnosis of the instrument

OPERATION MODE

The instrument can operate in three modes: manual, automatic and secure.

Manual mode: the operator must select only the sampling volume.

Automatic mode: the operator must enter or confirm

the user, the place of sampling and id of the plate. **Secure mode:** the operator must enter every time the user, the place of sampling and id of the plate using the appropriate TAG device (Radio Frequency identification).

MANUAL MODE

The operator must select only the sampling volume.

Switch on the instrument

Holding down the key (“↑”) to switch on the instrument





AIRWEL SN: XXXX Rev. XX
↑ ↓ ← →

Screen 1

Name of the instrument (AIRWEL)

Serial number (XXXX) of the instrument

Revision number (XX) of firmware installed on the instrument

 AIRWEL   
(Date and Time)
MANUAL MODE
Volume (l)
OFF CFG VOL GO!
↑ ↓ ← →

Screen 2

Name of the instrument (AIRWEL)

Date and Time

Manual Mode: Volume (l)





Press GO! (“→”) to start sampling or VOL (←) to change the volume

Select Volume:
XXX l
+ - ESC OK
↑ ↓ ← →

Screen 3

The display shows “Select Volume”

Select volume pressing keys + or - (“↑”, “↓”) (Values configurable: 30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)

 AIRWEL   
(Date and Time)
MANUAL MODE
Volume (l)
OFF CFG VOL GO!
↑ ↓ ← →

Press OK (“→”) to confirm the value

The display shows the initial screen

Press GO! (“→”) to start the sampling

SAMPLING Total
Volume (l) XXX
Flow (l/min) XX
Progress (%) XX
PAUSE ESC
↑ ↓ ← →

Screen 4

The display shows the sampling data in real time:

- Total volume (l)
- Flow (l/min)
- Progress (%)





SAMPLING
COMPLETE
PRINT QUIT
↑ ↓ ← →

Screen 5

At the end of the sampling, the display visualizes “COMPLETE”.

Press PRINT (“↑”) to print data

Press QUIT (“→”) to exit

 AIRWEL   
(Date and Time)
MANUAL MODE
Volume (l)
OFF CFG VOL GO!
↑ ↑ ← →
TRIO. BAS SHUTDOWN
↑ ↓ ← →

Switch off the instrument

Press OFF (“↑”) to switch off the instrument

AUTOMATIC MODE

The operator must enter or confirm the user, the place of sampling and id of the plate.

Switch on the instrument

Holding down the key (“↑”) to switch on the instrument

AIRWEL			
SN: XXXX			
Rev. XX			
↑	↓	←	→

Screen 1

Name of the instrument (AIRWEL)
Serial number (XXXX) of the instrument
Revision number (XX) of firmware installed on the instrument

	AIRWEL			
(Date and Time)				
LAST SAMPLE				
(Place) Volume (l)				
OFF	CFG	INV	GO!	
↑	↓	←	→	

Screen 2

Name of the instrument (AIRWEL)
Date and Time
Last Sample: Place and Volume (l)
Press GO! (“→”) to access at sampling menu

SAMPLING DATA			
User:	<i>Last User</i>		
Place:	<i>Last Place</i>		
Sample-Id:	<i>(Automatic)</i>		
Start sampling			
UP	DW	ESC	OK
↑	↓	↑	↑

Screen 3

The display shows "User", "Place" of the last sample and "Sample-Id" calculated automatically
The item "Start Sampling" is selected
Press OK (“→”) to start sampling

SAMPLING			
(Delay - Countdown)			
ESC			
↑	↓	←	→

Screen 4 / Schermata 4

The display shows the delay countdown, if it is configured

SAMPLING Total			
Volume (l)	XXX		
Flow (l/min)	XX		
Progress (%)	XX		
PAUSE	ESC		
↑	↓	←	→

Screen 5

The display shows the sampling data in real time:

- Total volume (l)
- Flow (l/min)
- Progress (%)

SAMPLING			
COMPLETE			
PRINT	QUIT		
↑	↓	←	→

Screen 6

At the end of the sampling, the display visualizes “COMPLETE”

Press PRINT (“↑”) to print data

Press QUIT (“→”) to exit

	AIRWEL			
(Date and Time)				
LAST SAMPLE				
(Place) Volume (l)				
OFF	CFG	INV	GO!	
↑	↓	←	→	

AIRWEL			
... SHUTDOWN ...			
↑	↓	←	→

Switch off the instrument

Press OFF (“↑”) to switch off the instrument

SECURE MODE



The operator must enter every time the user, the place of sampling and id of the plate using the appropriate TAG device (Radio Frequency identification)

Switch on the instrument
Holding down the key ("↑") to switch on the instrument

AIRWEL			
SN: XXXX			
Rev. XX			
↑	↓	←	→

Screen 1

Name of the instrument (AIRWEL)
Serial number (XXXX) of the instrument
Revision number (XX) of firmware installed on the instrument

 AIRWEL  (Date and Time) LAST SAMPLE undefined			
OFF	CFG	INV	GO!
↑	↓	←	→

Screen 2

Name of the instrument (AIRWEL)
Date and Time
Last Sample: Place and Volume (l)
Press GO! ("→") to access at sampling menu

User: ?	Place: ?	Sample-Id: ?	Start sampling
UP	DW	ESC	OK
↑	↓	←	→

Screen 3

The display shows "User", "Place" and "Sample-Id" to enter automatically approaching the TAG device (card, key ring or other) to the built-in RFID reader.

Recognition of User, Place and Sample-Id is automatic and is signaled with the appropriate message.

RFID recognized			
↑	↓	←	→

Press OK ("→") to start the sampling

SAMPLING (Delay - Countdown)			
			ESC
↑	↓	←	→

Screen 4

The display shows the delay countdown, if it is configured

SAMPLING Total Volume (l) XXX Flow (l/min) XX Progress (%) XX PAUSE ESC			
↑	↓	←	→

Screen 5

The display shows the sampling data in real time:

- Total volume (l)
- Flow (l/min)
- Progress (%)

SAMPLING COMPLETE			
PRINT			QUIT
↑	↓	←	→

Screen 6



At the end of the sampling, the display visualizes "COMPLETE"

Press PRINT ("↑") to print data

Press QUIT ("→") to exit

Switch off the instrument

Press OFF ("↑") to switch off the instrument


 AIRWEL  (Date & Time) LAST SAMPLE undefined			
OFF	CFG	INV	GO!
↑	↓	←	→

 AIRWEL  ... SHUTDOWN ...			
↑	↓	←	→

BATTERY CHARGING BY INTEGRATED BASE STATION

The power supply is integrated into the cradle of the instrument. Charging occurs through induction, after staying on the tool base.

Instructions for the charge

1. Supply the device through the cable of power supply included.
2. Place the instrument at the base, the LED (Figure) turns yellow and begins to blink
3. The instrument display shows the charge level of the battery
4. At the end of charging, the LED lights green and stays on until the device is removed from the base.
The icon on the display reaches 100% ()



**Separated Battery Charger
by Induction**

POWER SUPPLY

Base station complete with cable outlet

Code

BCLO2012	Wireless charging base station
350	Wireless charging base station with user calibration for Rodac 60
351	Wireless charging base station with user calibration for Petri 90
352	Wireless charging base station with user calibration for Bactair 110



ASPIRATING HEADS

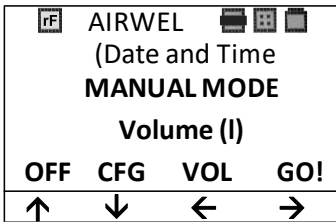
Aspirating heads

Code

BCLO3002	Stainless steel head 219 Rodac		55mm
BCLO3001	Stainless steel head 221 Petri		90mm
BCLO3004	Polycarbonate head 219 Rodac		55/ 90mm
BCLO3003	Polycarbonate head 221 Petri		55/ 90
BCLO3006	Daily shift polystyrene head 219 Rodac		55/ 99mm
BCLO3005	Daily shift polystyrene head 221 Petri		55/ 99mm
BCLO3007	CLOSE SYSTEM aspirating head + culture media TSA		55/ 99mm
BCL3008	CLOSE SYSTEM aspirating head + culture media		55/ 99mm
BCLO3010	Cover for CLOSE SYSTEM - sterile		55/ 99mm
BCLO3009	Adapter for aspirating head CLOSE SYSTEM		

PART 4 – INSTRUMENT PROGRAMMING

CONFIGURATION MENU

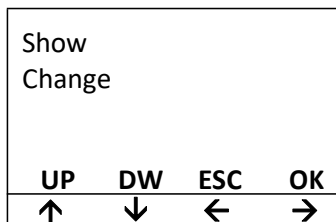


The configuration menu allows programming the instrument (visualization of inventories or modification of setting).

To program the air sampler press the key CFG (“↓”).

The display shows the following menu: “**Show**” and “**Change**”.

“Show” allow visualizing the inventories, “Change” allows modifying the instrument setting.



The menu “**Change**” is protected by security-password and it is accessible from 3 levels of users:

- **Operator (default pwd:1)**
- **Administrator (default pwd: 2)**
- **Factory Service (available only from the manufacturer)**

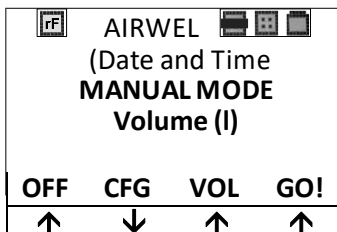
Specific function are enabled for each user.

The operator has access to the basic functions of the instrument, such as: change operating mode, setting places/volume, user, date and language.

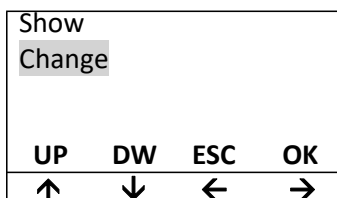
The administrator also to those of the system, such as system restore and diagnosis of the instrument.

Note: to program or change any of the programs MANUAL, AUTOMATIC, SECURE select CFG (CONFIGURATION) and then CHANGE OPERATIVE MODE

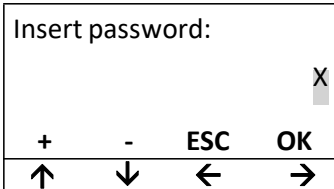
CHANGE MENU



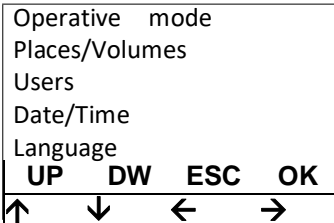
To access the functions press the key CFG (“↓”).



Select the menu item “Change” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

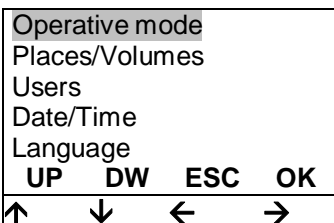


The display shows "Insert password:", enter it (default **1**) as follows: Add a digit / letter by pressing key ADD ("←")
Delete a digit / letter by pressing key REM ("→")
Modify a digit / letter by pressing keys + and - ("↑" "↓")
Confirm the data holding down OK ("→") or annul holding down ESC ("←")

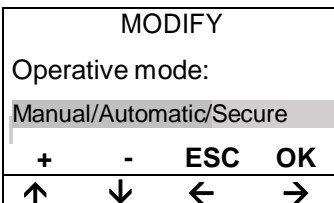


The display shows the menu items for users.
Select the item using the keys UP and DW ("↑" "↓") and pressing OK ("→").

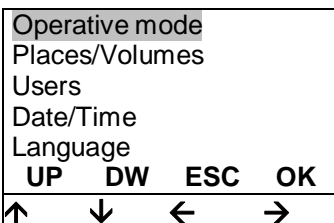
Change - Operative mode



The menu "**Operative mode**" allows setting the mode of operation of the instrument.
Select the menu item "Operative mode" using the keys UP and DW ("↑" "↓") and pressing OK ("→")

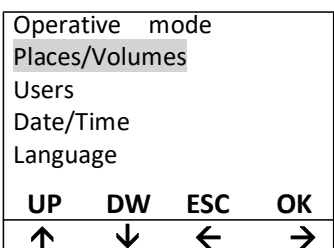


The display shows "Operative mode:"
Select operative mode pressing keys + or - ("↑" "↓") (Operatives mode configurable: Manual, Automatic, Secure)
Press the key OK ("→") to confirm or ESC ("←") to exit



The display show the principal screen

Change - Places/Volumes



The menu "Places/Volumes" allows defining the data of sampling place.
Select the item "Places/Volumes" using the keys UP and DW ("↑" "↓") and pressing OK ("→").

1: Place 1				
2: Place 2				
3: Place 3				
4: Place 4				
5: Place 5				
UP	DW	ESC	OK	
↑	↓	←	→	

The display shows a list of up to 10 places. Select from list the desired place using the keys UP and DW (“↑” “↓”) and confirm by OK (“→”).

Text:				
ID:				
Volume:				
Delay:				
Fraction Num:				
Fr. Time (min:				
UP	DW	ESC	OK	
↑	↓	←	→	

The display visualizes the menu items for Places/Volumes
Select the item **Text** (place description) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

MODIFY				
Insert Text:				
				XXX
				OK
+	-	ADD		REM
↑	↓	←	→	

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑” “↓”)

Confirm the data holding down OK (“→”). The display shows the Places/Volumes menu items.

Text: ID:				
Volume:				
Delay:				
Fraction Num:				
UP	DW	ESC	OK	
↑	↓	←	→	

Select the item **ID** (place identification) using the keys using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

MODIFY				
Insert ID:				
				XXX
		ESC		OK
+	-	ADD	REM	
↑	↓	←	→	

The display shows the screen of ID input:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑” “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”). The display shows the Places/Volumes menu items.

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing)

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Volume** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Text: ID:
Volume:
Delay: XXX
Fraction Num:
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

The item Volume flashes:

- Select volume pressing keys + and - (“↑” “↓”) (Values configurable: 30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Delay** (Delay of sampling, in seconds) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

The item Delay flashes:

- Select delay (seconds) pressing keys + and - (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text: ID:
Volume:
Delay: XXX
Fraction Num:
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Fraction Num.** (Number of sampling cycle) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

The item Fraction Num flashes:

- Select the number of sampling cycle pressing keys + and - (“↑” “↓”)
- Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min): XX
+ - ESC OK
↑ ↓ ← →

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Fr. Time (min)** (Interval time between sampling) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

The item Fr. Time flashes:

- Select the minutes of interval time pressing keys + and – (“↑”, “↓”)
Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”).
The display shows the Places/Volumes menu items

Text:
ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min): XX
+ - ESC OK
↑ ↓ ← →

ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
Head Mode
UP DW ESC OK
↑ ↓ ← →

Select the item **HeadMode** (working mode), only if the instrument has multiple heads, using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

The item Head Mode flashes:

- Select the value pressing keys + and - (“↑”, “↓”) ((CNT (simultaneous activation of all the heads) or SQS (sequential activation starting from the lowest numbered))).

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
Head Mode: XXX
+ - ESC OK
↑ ↓ ← →

1: Place 1
2: Place 2
3: Place 3
4: Place 4
5: Place 5
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Change - Users

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
← →

The menu "**Users**" allows you to define the data of users.

Select the item "User" using the keys UP and DW ("↑", "↓") and pressing OK ("→").

1: User 1
2: User 2
3: User 3
4: User 4
5: User 5
UP DW ESC OK
↑ ↓ ← →

The display shows a list of up to 10 users

Select from list the desired user using the keys UP and DW ("↑", "↓") and confirm by OK ("→").

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

The display visualizes the menu items for Users

Select the item **Text** (place description) using the keys UP and DW ("↑", "↓") and pressing OK ("→")

MODIFY
Insert Text: XXX
OK
+ - ADD REM
↑ ↓ ← →

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑", "↓")

Confirm the data holding down OK ("→"). The display shows the Users menu items

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

Select the item **ID** (place identification) using the keys using the keys UP and DW ("↑", "↓") and pressing OK ("→")

MODIFY
Insert ID: XXX
OK
+ - ESC ADD REM
↑ ↓ ← →

The item ID flashes:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑", "↓")

Confirm the data holding down OK ("→") or annul holding down ESC ("←"). The display shows the Users menu items

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing)

1: User 1
2: User 2
3: User 3
4: User 4
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Change - Date/Time

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu “**Date/Time**” allows defining date and of system.

Select the menu item “**Date/Time**” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

The display shows the menu for date and time of system

Select the item **Hours** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month:
Year:
+ - ESC OK
↑ ↓ ← →

The item Hours flashes:

- Select the hours pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”).The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Minutes** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

The item Minutes flashes:

Select the minutes pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
+ - ESC OK
↑ ↓ ← →

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Day** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Hours:
Minutes:
Day: XX
Month:
Year:
+ - ESC OK
↑ ↓ ← →

The item flashes:

- Select the day pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Month** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day: XX
Month:
Year:
+ - ESC OK
↑ ↓ ← →

The item Month flashes:

- Select the month pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items.

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Year** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month:
Year: XXXX
+ - ESC OK
↑ ↓ ← →

The item Year flashes:

- Select the year pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Change - Language

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu “**Language**” allows defining the language of system and the date format.

Select the menu item “**Language**” using the keys UP and DW (“↑”, “↓”) and pressing OK (“←”).

Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

The display shows the menu for the language of system

Select the menu item **Language** using the keys UP and DW (“↑”, “↓”) and pressing OK (“←”).

Language: XX
DateFormat:
+ - ESC OK
↑ ↓ ← →

The item Language flashes:

- Select the visualization language (ENG /ITA) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“←”) or annul by pressing ESC (“←”). The display shows the Language menu items

Change - DateFormat(EU, USA, Informatics)

Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

Select the menu item **DateFormat** (format visualization date, European day/month/year, USA month/day/year or Informatics year/month/day) using the keys UP and DW (“↑”, “↓”) and pressing OK (“←”).

Language:
DateFormat: XXX
+ - ESC OK
↑ ↓ ← →

The item DateFormat flashes:

- Select the format of the date (DMY /MDY /YMD, where D=day, M=month, Y=year) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“←”) or annul by pressing ESC (“←”). The display shows the Language menu items

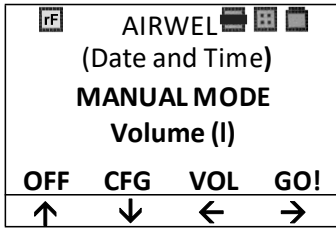
Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

↓ →

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

OPERATION MODE MANUAL

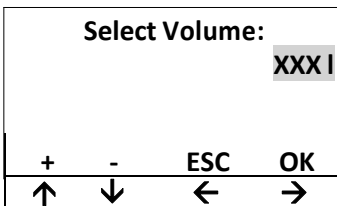


The display shows the initial screen with the volume of the last sample. If the value matches one you want to proceed with sampling, otherwise select a new value of volume

Press GO! ("→") to start immediately the sampling

Select Volume

Press VOL ("←")



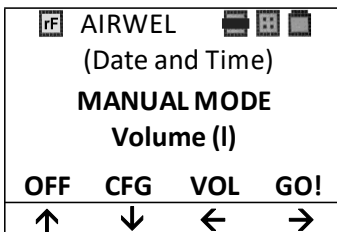
The display shows "Select volume:"

Select volume pressing keys + or - ("↑" "↓") (Values configurable: 30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)

Press OK ("→") to confirm the value

The display shows the initial screen

Press GO! ("→") to start the sampling



OPERATION MODE AUTOMATIC

Before you start sampling, you can identify the operator, the location of the measurement and sampling plate (when their functions are active).

This data can be entered manually or read automatically, approaching the TAG device (card, key ring or other) to the built-in RFID reader.

User:	<i>Last User</i>		
Place:	<i>Last Place</i>		
Sample-Id:	<i>(Automatic)</i>		
Start sampling			
UP	DW	ESC	OK
↑	↓	←	→

The display shows the mask "Sampling date" with "User", "Place" of the last sample and "Sample-Id" calculated automatically by the system. The item "Start Sampling" is selected. If User, Place and Sample-Id correspond proceed with sampling, otherwise enter User, Place and Sample-Id corrected.

Press OK ("→") to start the sampling

Press ESC ("←") to exit from functioning menu

Insert User, Place and Sample-Id

User:	User-1		
Place:			
Sample-Id:			
Start sampling			
+	-	ESC	OK
↑	↓	←	→

Select item **"User"** by pressing the key UP and DW ("↑", "↓")

Confirm by pressing OK ("→"), the item flashes

Select user from list + and - ("↑", "↓") and confirm by pressing OK ("→") or annul by pressing ESC ("←")

User:			
Place:	Place-1		
Sample-Id:			
Start sampling			
+	-	ESC	OK
↑	↓	←	→

Select item **"Place"** by pressing the key UP and DW ("↑", "↓")

Confirm by pressing OK ("→"), the item flashes

Select place from list + and - ("↑", "↓") and confirm by pressing OK ("→") or annul by pressing ESC ("←")

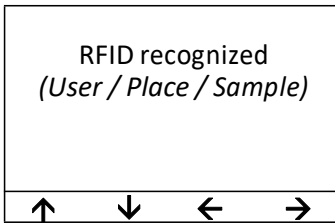
MODIFY Insert			
Sample ID:			
			XXX
+	-	ESC	OK
		ADD	REM
↑	↓	←	→

Select the item **"Sample-Id"** by pressing the keys UP e DW ("↑", "↓")

Confirm by pressing OK ("→"), the item flashes. Enter the data as follows:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑", "↓")

Confirm the data holding down OK ("→") or annul holding down ESC ("←")



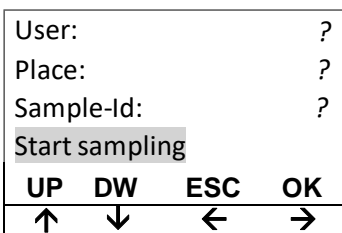
RFID IDENTIFICATION

The data can be read by RFID built-in reader approaching the appropriate device TAG. Recognition of User, Place and Sample-Id is automatic and is signaled with the appropriate message

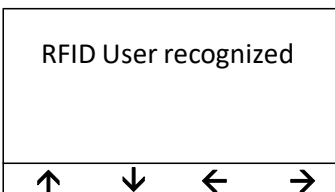
OPERATION MODE SECURE

Before you start sampling, it is necessary identify the operator, the location of the measurement and sampling plate (when their functions are active).

This data must be read automatically, approaching the TAG device (card, key ring or other) to the built-in RFID reader.

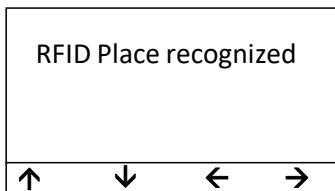


The display shows the mask "Sampling date" with "User", "Place" and "Sample-Id" to enter automatically approaching the TAG device (card, key ring or other) to the built-in RFID reader.



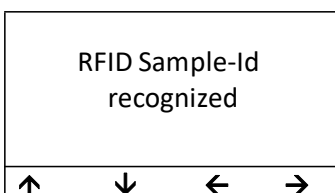
Recognition of User, Place and Sample-Id is automatic and is signaled with the appropriate message

Eventually select "Start sampling" with the keys UP and DW ("↑", "↓")



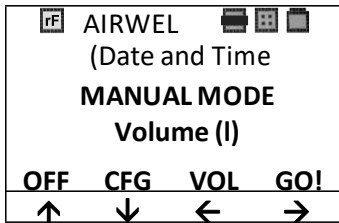
Press OK ("→") to start the sampling

Press ESC ("←") to exit from functioning menu



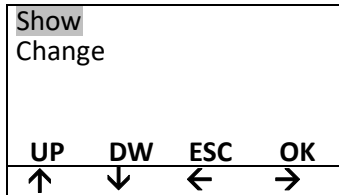
PART 5 – HISTORICAL VISUALIZATION

VISUALIZATION MENU



The visualization menu allows visualizing the sampling inventories.

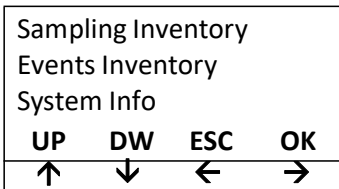
To access the sampling inventories press the key CFG (“↓”).



The display shows the following menu: “**Show**” and “**Change**”.

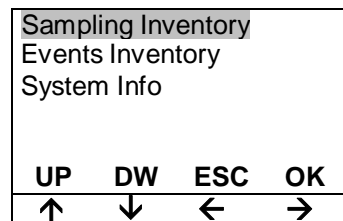
The menu “**Show**” allows visualizing the sampling data and the events memorized and the system information.

Select the menu item “Show” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).



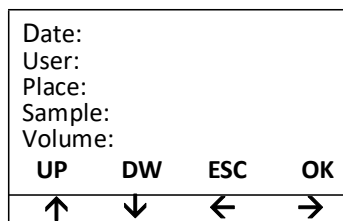
The display shows the relative menu items

Show - Sampling Inventory



The menu “**Sampling Inventory**” allows the display of sampling data stored.

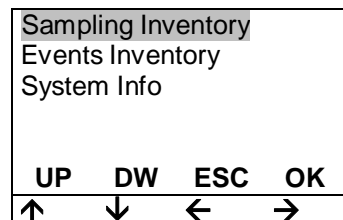
Select the item “Sampling Inventory” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).



The display shows the logs of sampling

Scrolling the samples using the keys UP and DW (“↑”, “↓”)

For each sample the display shows: date, user, place, sample (sample identification 1 (2 and 3)) and volume



Use the key ESC (“←”) to exit menu

Show - Events Inventory

Sampling Inventory	Events Inventory	System Info
UP	DW	ESC
↑	↓	←
		OK
		→

The menu "**Events Inventory**" allows visualize the event logs stored.

Select the item "Events Inventory" using the keys UP and DW ("↑", "↓") and pressing OK ("→")

Counter:	x/n. Tot
Date:	
Time:	
Event:	
UP	DW
↑	↓
	ESC
	←
	OK
	→

The display shows the logs of events

Scrolling the events using the keys UP and DW ("↑", "↓")

For each event the display shows the following data: counter (num. of event/total), date, time, event

Sampling Inventory	Events Inventory	System Info
UP	DW	ESC
↑	↓	←
		OK
		→

Use the key ESC ("←") to exit menu

Show - System Info

Sampling Inventory	Events Inventory	System Info
UP	DW	ESC
↑	↓	←
		OK
		→

The menu "**System Info**" allows to visualize the instrument information, such as serial number, software installed version, speed, number of heads, Bluetooth® (if present), RFID reader (if present).

Select the menu item "System Info" using the keys UP and DW ("↑", "↓") and pressing OK ("→").

S.N.	
Hw Version	
Sw Version	
Samp. Speed (l/min)	
Head Num	
UP	DW
↑	↓
	ESC
	←
	OK
	→

The display shows the relative menu items

Sampling Inventory	Events Inventory	System Info
UP	DW	ESC
↑	↓	←
		OK
		→

Use the key ESC ("←") to exit menu

PART 6 – ACCESS BY PASSWORD

OPERATOR

The following describes the functions related to the Operator: Operative mode, Places/Volumes, Users, Date/Time, Language

AIRWEL			
(Date and Time)			
MANUAL MODE			
Volume (l)			
OFF	CFG	VOL	GO!
↑	↓	←	→

To access the functions press the key CFG (“↓”).

Change

Show			
Change			
UP	DW	ESC	OK
↑	↓	←	→

Select the menu item “Change” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Insert password:			
X			
+	-	ESC	OK
↑	↓	←	→

The display shows “Insert password:”, enter it (default **1**) as

- follows: Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and - (“↑”, “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”)

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The display shows the menu items for users.

Select the item using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Change · Operative mode

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The menu "**Operative mode**" allows setting the mode of operation of the instrument.

Select the menu item “Operative mode” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

MODIFY			
Operative mode:			
Manual/Automatic/Secure			
+	-	ESC	OK
↑	↓	←	→

The display shows "Operative mode:"

Select operative mode pressing keys + or - ("↑", "↓") (Operatives mode configurable: Manual, Automatic, Secure)

Press the key OK ("→") to confirm or ESC ("←") to exit

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The display show the principal screen

Change - Places/Volumes

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The menu "Places/Volumes" allows defining the data of sampling place.

Select the item "Places/Volumes" using the keys UP and DW ("↑", "↓") and pressing OK ("→").

1: Place 1			
2: Place 2			
3: Place 3			
4: Place 4			
5: Place 5			
6: Place 6			
UP	DW	ESC	OK
↑	↓	←	→

The display shows a list of up to 10 places. Select from list the desired place using the keys UP and DW ("↑", "↓") and confirm by OK ("→").

Text:			
ID:			
Volume:			
Delay:			
Fraction Num:			
Fr. Time (min):			
UP	DW	ESC	OK
↑	↓	←	→

The display visualizes the menu items for Places/Volumes

Select the item **Text** (place description) using the keys UP and DW ("↑", "↓") and pressing OK ("→").

MODIFY			
Insert Text:			XXX
			OK
+	-	ADD	REM
↑	↓	←	→

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑", "↓")

Confirm the data holding down OK ("→"). The display shows the Places/Volumes menu items

Text:
ID:
Volume:
Delay:
Fraction Num:
UP DW ESC OK
↑ ↓ ← →

Select the item **ID** (place identification) using the keys using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

MODIFY			
Insert ID:			
			XXX
	ESC	OK	
+	-	ADD	REM
↑	↓	←	→

The display shows the screen of ID input:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑”, “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”). The display shows the Places/Volumes menu items

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing)

Text:
ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Volume** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Text:
ID:
Volume: XXX
Delay:
Fraction Num:
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

The item Volume flashes:

- Select volume pressing keys + and – (“↑”, “↓”) (Values configurable: 30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Delay** (Delay of sampling, in seconds) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Text: ID:
Volume:
Delay:
Fraction Num: XXX
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

The item Delay flashes:

- Select delay (seconds) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text:
ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Fraction Num.** (Number of sampling cycle) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Text:
ID:
Volume:
Delay:
Fraction Num: XX
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

The item Fraction Num flashes:

- Select the number of sampling cycle pressing keys + and – (“↑”, “↓”)
Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”).
The display shows the Places/Volumes menu items

Text:
ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Fr. Time (min)** (Interval time between sampling) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min): XX
+ - ESC OK
↑ ↓ ← →

The item Fr. Time flashes:

- Select the minutes of interval time pressing keys + and – (“↑”, “↓”)
Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
Head Mode
UP DW ESC OK
↑ ↓ ← →

Select the item **HeadMode** (working mode), only if the instrument has multiple heads, using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

ID:
Volume:
Delay:
Fraction Num:
Head Mode: XXX
+ - ESC OK
↑ ↓ ← →

The item Head Mode flashes:

- Select the value pressing keys + and - (“↑”, “↓”) ((CNT (simultaneous activation of all the heads) or SQS (sequential activation starting from the lowest numbered))

Confirm the data by pression OK (“→”) or annul by pressing ESC (“←”); The display shows the Places/Volumes menu items

1: Place 1
2: Place 2
3: Place 3
4: Place 4
5: Place 5
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Change - Users

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu "Users" allows you to define the data of users.

Select the item "User" using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

1: User 1
2: User 2
3: User 3
4: User 4
5: User 5
UP DW ESC OK
↑ ↓ ← →

The display shows a list of up to 10 users

Select from list the desired user using the keys UP and DW (“↑”, “↓”) and confirm by OK (“→”).

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

The display visualizes the menu items for Users

Select the item **Text** (place description) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

MODIFY
Insert Text: XXX
+ - ADD REM
↑ ↓ ← →

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and - (“↑”, “↓”)

Confirm the data holding down OK (“→”). The display shows the Users menu items

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

Select the item **ID** (place identification) using the keys using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

MODIFY
Insert ID:
XXX
ESC OK
+ - ADD REM
↑ ↓ ← →

The item ID flashes:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑”, “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”). The display shows the Users menu items

Text:
ID:
UP DW ESC OK
↑ ↓ ← →

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing)

1: User 1
2: User 2
3: User 3
4: User 4
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Change - Date/Time

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu “**Date/Time**” allows defining date and of system.

Select the menu item “**Date/Time**” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

The display shows the menu for date and time of system

Hours:			
Minutes:			
Day:			
Month:			
Year:			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Hours** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:			
Minutes:			
Day:			
Month:			
Year:			
+	-	ESC	OK
↑	↓	←	→

The item Hours flashes:

- Select the hours pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:			
Minutes:			
Day:			
Month:			
Year:			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Minutes** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

The item Minutes flashes:

Hours:			
Minutes:			
Day: Month:			
Year:			
+	-	ESC	OK
↑	↓	←	→

Select the minutes pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:			
Minutes:			
Day:			
Month:			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Day** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Year:			
Hours:			
Minutes:			
Day:			
Month:			
Year:			
+	-	ESC	OK
↑	↓	←	→

The item flashes:

- Select the day pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:			
Minutes:			
Day:			
Month:			
Year:			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Month** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

The item Month flashes:

- Select the month pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:			
Minutes:			
Day:			
Month:			
Year:			
+	-	ESC	OK
↑	↓	←	→

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Year** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month:
Year: XXXX
+ - ESC OK
↑ ↓ ← →

The item Year flashes:

- Select the year pressing keys + and – (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Change - Language

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu “**Language**” allows defining the language of system and the date format.

Select the menu item “**Language**” using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

The display shows the menu for the language of system

Select the menu item **Language** using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Language: XX
DateFormat:
+ - ESC OK
↑ ↓ ← →

The item Language flashes:

- Select the visualization language (ENG /ITA) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Change - DateFormat (EU, USA, Informatics)

Language:
DateFormat:
UP DW ESC OK
↑ ↓ ← →

Select the menu item **DateFormat** (format visualization date, European day/month/year, USA month/day/year or Informatics year/month/day) using the keys UP and DW (“↑”, “↓”) and pressing OK (“→”).

Language:			
DateFormat: XXX			
+	-	ESC	OK
↑	↓	←	→

The item DateFormat flashes:

- Select the format of the date (DMY /MDY /YMD, where D=day, M=month, Y=year) pressing keys + and - (“↑”, “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Language:			
DateFormat:			
UP	DW	ESC	OK
↑	↓	←	→

Use the key ESC (“←”) to exit menu

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

ADMINISTRATOR

The following describes the functions related to the Administrator: Operative mode, Places/Volumes, Users, Date/Time, Language, *System Restore e System Diagnosis*

AIRWEL			
(Date and Time)			
MANUAL MODE			
Volume (I)			
OFF	CFG	VOL	GO!
↑	↓	←	→

To access the functions press the key CFG (“↓”).

Change

Show			
Change			
UP	DW	ESC	OK
↑	↓	←	→

Select the menu item “Change” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Insert password:			
+	-	ESC	OK
↑	↓	←	→

The display shows “Insert password:”, enter it (default 2) as follows:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑” “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”)

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The display shows the menu items for users.

Select the item using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

Change - Operative mode

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

The menu “**Operative mode**” allows setting the mode of operation of the instrument.

Select the menu item “Operative mode” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

MODIFY			
Operative mode:			
Manual/Automatic/Secure			
+	-	ESC	OK
↑	↓	←	→

The display shows “Operative mode:”

Select operative mode pressing keys + or - (“↑” “↓”) (Operatives mode configurable: Manual, Automatic, Secure)

Press the key OK (“→”) to confirm or ESC (“←”) to exit

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The display show the principal screen

Change Places/Volume

Operative mode
Places/Volumes
Users
Date/Time
Language
UP DW ESC OK
↑ ↓ ← →

The menu "Places/Volumes" allows defining the data of sampling place. Select the item "Places/Volumes" using the keys UP and DW ("↑" "↓") and pressing OK ("→").

1: Place 1
2: Place 2
3: Place 3
4: Place 4
5: Place 5
UP DW ESC OK
↑ ↓ ← →

The display shows a list of up to 10 places. Select from list the desired place using the keys UP and DW ("↑" "↓") and confirm by OK ("→").

Text:
ID:
Volume:
Delay:
Fraction Num:
UP DW ESC OK
↑ ↓ ← →

The display visualizes the menu items for Places/Volumes. Select the item **Text** (place description) using the keys UP and DW ("↑" "↓") and pressing OK ("→").

MODIFY
Insert Text: XXX
OK
+ - ADD REM
↑ ↓ ← →

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑" "↓")

Confirm the data holding down OK ("→"). The display shows the Places/Volumes menu items

Text: ID:
Volume:
Delay:
Fraction Num:
UP DW ESC OK
↑ ↓ ← →

Select the item **ID** (place identification) using the keys using the keys UP and DW ("↑" "↓") and pressing OK ("→")

MODIFY			
Insert ID:			
			XXX
	ESC	OK	
+	-	ADD	REM
↑	↓	←	→

The display shows the screen of ID input:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑” “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”).

The display shows the Places/Volumes menu items

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing).

Text: ID:			
Volume: XXX			
Delay:			
Fraction Num:			
Fr. Time (min):			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Volume** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Text: ID:			
Volume: XXX			
Delay:			
Fraction Num:			
Fr. Time (min):			
+	-	ESC	OK
↑	↓	←	→

The item Volume flashes:

- Select volume pressing keys + and – (“↑” “↓”) (Values configurable: 30, 50, 60, 90, 100, 160, 200, 283, 320, 400, 500, 700, 1000)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text: ID:			
Volume:			
Delay: XXX			
Fraction Num:			
Fr. Time (min):			
UP	DW	ESC	OK
↑	↓	←	→

Select the item **Delay** (Delay of sampling, in seconds) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Text: ID:			
Volume:			
Delay:			
Fraction Num: XXX			
Fr. Time (min):			
+	-	ESC	OK
↑	↓	←	→

The item Delay flashes:

- Select delay (seconds) pressing keys + and - (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Select the item **Fraction Num.** (Number of sampling cycle) using the keys UP

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

and DW (“↑” “↓”) and pressing OK (“→”)

Text:
ID:
Volume:
Delay:
Fraction Num: XX
Fr. Time (min):
+ - ESC OK
↑ ↓ ← →

The item Fraction Num flashes:

- Select the number of sampling cycle pressing keys + and – (“↑” “↓”) Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Text:
ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
UP DW ESC OK
↑ ↓ ← →

Select the item **Fr. Time (min)** (Interval time between sampling) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Text: ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min): XX
+ - ESC OK
↑ ↓ ← →

The item Fr. Time flashes:

- Select the minutes of interval time pressing keys + and – (“↑” “↓”) Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
Head Mode
UP DW ESC OK
↑ ↓ ← →

Select the item **HeadMode** (working mode), only if the instrument has multiple heads, using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

ID:
Volume:
Delay:
Fraction Num:
Fr. Time (min):
Head Mode: XXX
+ - ESC OK
↑ ↓ ← →

The item Head Mode flashes:

- Select the value pressing keys + and - (“↑” “↓”) ((CNT (simultaneous activation of all the heads) or SQS (sequential activation starting from the lowest numbered))

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Places/Volumes menu items

Use the key ESC (“←”) to exit menu

1: Place 1				
2: Place 2				
3: Place 3				
4: Place 4				
5: Place 5				
UP	DW	ESC	OK	
↑	↓	←	→	

Operative mode				
Places/Volumes				
Users				
Date/Time				
Language				
UP	DW	ESC	OK	
↑	↓	←	→	

Change Users

Operative mode				
Places/Volumes				
Users				
Date/Time				
Language				
UP	DW	ESC	OK	
↑	↓	←	→	

The menu **"Users"** allows you to define the data of users.
Il menu **"Users"** consente di definire i dati degli utenti.

Select the item "User" using the keys UP and DW ("↑" "↓") and pressing OK ("→").

1: User 1				
2: User 2				
3: User 3				
4: User 4				
5: User 5				
UP	DW	ESC	OK	
↑	↓	←	→	

The display shows a list of up to 10 users

Select from list the desired user using the keys UP and DW ("↑" "↓") and confirm by OK ("→").

Text:				
ID:				
UP	DW	ESC	OK	
↑	↓	←	→	

The display visualizes the menu items for Users

Select the item **Text** (place description) using the keys UP and DW ("↑" "↓") and pressing OK ("→")

MODIFY				
Insert Text:				
			XXX	
			OK	
+	-	ADD	REM	
↑	↓	←	→	

The display shows the screen of text input:

- Add a digit / letter by pressing key ADD ("←")
- Delete a digit / letter by pressing key REM ("→")
- Modify a digit / letter by pressing keys + and - ("↑" "↓")

Confirm the data holding down OK ("→"). The display shows the Users menu items.

Text:				
ID:				
UP	DW	ESC	OK	
↑	↓	←	→	

Select the item **ID** (place identification) using the keys using the keys UP and DW ("↑" "↓") and pressing OK ("→")

MODIFY			
Insert ID: XXX			
+	-	ESC ADD	OK REM
↑	↓	←	→

Text:			
ID:			
UP	DW	ESC	OK
↑	↓	←	→

1: User 1			
2: User 2			
3: User 3			
4: User 4			
UP	DW	ESC	OK
↑	↓	←	→

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

Change Date/Time

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

Hours:			
Minutes:			
Day:			
Month:			
Year:			
UP	DW	ESC	OK
↑	↓	←	→

Hours: XX			
Minutes:			
Day:			
Month:			
Year:			
+	-	ESC	OK
↑	↓	←	→

The item ID flashes:

- Add a digit / letter by pressing key ADD (“←”)
- Delete a digit / letter by pressing key REM (“→”)
- Modify a digit / letter by pressing keys + and – (“↑” “↓”)

Confirm the data holding down OK (“→”) or annul holding down ESC (“←”). The display shows the Users menu items

Note: The ID can be read automatically by RFID built-in reader approaching the appropriate device TAG (when the item is flashing)

Use the key ESC (“←”) to exit menu

The menu “Date/Time” allows defining date and of system.

Select the menu item “Date/Time” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

The display shows the menu for date and time of system

Select the item **Hours** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

The item Hours flashes:

- Select the hours pressing keys + and – (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”).

The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Minutes** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Hours:
Minutes: XX
Day:
Month:
+ - ESC OK
↑ ↓ ← →

The item Minutes flashes:

Select the minutes pressing keys + and – (“↑” “↓”)
Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”).
The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Day** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day: XX
Month:
Year:
+ - ESC OK
↑ ↓ ← →

The item Day flashes:

- Select the day pressing keys + and – (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month: XX
Year:
UP DW ESC OK
↑ ↓ ← →

Select the item **Month** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Hours:
Minutes:
Day:
Month: XX
Year:
+ - ESC OK
↑ ↓ ← →

The item Month flashes:

- Select the month pressing keys + and – (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Hours:
Minutes:
Day:
Month:
Year: XX
UP DW ESC OK
↑ ↓ ← →

Select the item **Year** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”)

Hours:				
Minutes:				
Day:				
Month:				
Year:			XXXX	
+	-	ESC	OK	
↑	↓	←	→	

The item Year flashes:

- Select the year pressing keys + and - (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Data/Time menu items

Operative mode				
Places/Volumes				
Users				
Date/Time				
Language				
UP	DW	ESC	OK	
↑	↓	↓	→	

Use the key ESC (“←”) to exit menu

Change - Language

Operative mode				
Places/Volumes				
Users				
Date/Time				
Language				
UP	DW	ESC	OK	
↑	↓	←	→	

The menu “Language” allows defining the language of system.

Select the menu item “**Language**” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

Language:				
DateFormat:				
UP	DW	ESC	OK	
↑	↓	←	→	

The display shows the menu for the language of system

Select the menu item **Language** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

The item Language flashes:

- Select the visualization language (ENG /ITA) pressing keys + and - (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Language:			XX	
DateFormat:				
+	-	ESC	OK	
↑	↓	←	→	

Change - DateFormat (EU, USA, Informatics)

Language:				
DateFormat:				
UP	DW	ESC	OK	
↑	↓	←	→	

Select the menu item **DateFormat** (format visualization date, European day/month/year, USA month/day/year or Informatics year/month/day) using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

The item DateFormat flashes:

- Select the format of the date (DMY /MDY /YMD, where D=day, M=month, Y=year) pressing keys + and - (“↑” “↓”)

Confirm the data by pressing OK (“→”) or annul by pressing ESC (“←”). The display shows the Language menu items

Language:				
DateFormat:			XXX	
+	-	ESC	OK	
↑	↓	←	→	

Language:			
DateFormat:			
UP	DW	ESC	OK
↑	↓	←	→

Operative mode			
Places/Volumes			
Users			
Date/Time			
Language			
UP	DW	ESC	OK
↑	↓	←	→

Use the key ESC (“←”) to exit menu

Change - System Restore

Places/Volumes			
Users			
Date/Time			
Language			
System Restore			
UP	DW	ESC	OK
↑	↓	←	→

The menu “**System Restore**” allows to access at items for reset factory configuration and clear inventory.

Select the menu item “System Restore” using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

Restore Factory			
Clear Inventory			
Clear Places/Users			
UP	DW	ESC	OK
↑	↓	←	→

The display shows the relative menu items

Select the item **Restore Factory** using the keys UP and DW (“↑” “↓”) and pressing OK (“→”).

MESSAGE			
Restore all system to factory config.?			
YES			NO
↑	↓	←	→

The display visualize “Reset all system to factory config?”

Confirm using the key YES (“↑”). Factory settings are restored Press the key NO (“→”) to annul

Restore Factory			
Clear Inventory			
Clear Places/Users			
UP	DW	ESC	OK
↑	↓	←	→

The display shows the System Restor menu items

Select the item **Clear Inventory** using the keys keys UP and DW (“↑” “↓”) and pressing OK (“→”)

MESSAGE			
Clear Inventory?			
YES			NO
↑	↓	←	→

The display visualize “Clear Inventory?”

Confirm using the key YES (“↑”). Sampling data and log events in memory will be erased. Press the key NO (“→”) to annul

Restore Factory
Clear Inventory
Clear Users/Places
UP DW ESC OK
↑ ↓ ← →

The display shows the System Restor menu items
Select the item **Clear Places/Users** using the keys keys UP and DW (“↑” “↓”) and pressing OK (“→”)

MESSAGE			
Clear Users and Place list ?			
YES			NO
↑	↓	←	→

The display visualize “Clear user and place list?”
Confirm using the key YES (“↑”). Places and users in memory will be erased
Press the key NO (“→”) to annul

Restore Factory
Clear Inventory
Clear Users/Places
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

Users
Date/Time
Language
System Restore
UP DW ESC OK
↑ ↓ ↓ →

Change - System Diagnosis

Users
Date/Time
Language
System Restore
System Diagnosis
UP DW ESC OK
↑ ↓ ← →

The menu "**System Diagnosis**" allows you to view the operating parameters of the instrument.
Select the item System Diagnosis using the keys keys UP and DW (“↑” “↓”) and pressing OK (“→”).

VCC
Fan 1
Fan 3
Bluetooth
UP DW ESC OK
↑ ↓ ← →

The display shows the list of operating parameters

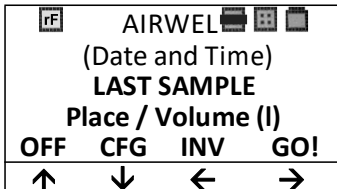
Date/Time
Language
System Restore
System Diagnosis
UP DW ESC OK
↑ ↓ ← →

Use the key ESC (“←”) to exit menu

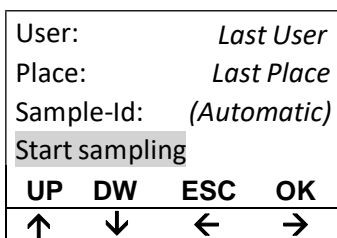
PART 7 – CYCLE IDENTIFICATION

RFID MODULE

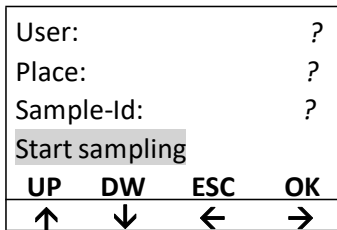
The RFID module incorporated in the instrument used to read the TAG devices by simply bringing the same to the point of reading (as shown), during sampling. The system automatically recognizes the type of identifier (user, sampling point, Id-sample).



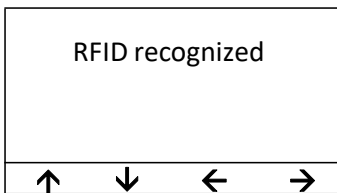
Press GO! ("→") to access at sampling men



The display shows the mask "Sampling date" with "**User**", "**Place**" of the last sample and "**Sample-Id**" calculated automatically by the system. Bringing TAG User, Place and Sample-ID the point for reading are automatically recognized.



The display shows the mask "Sampling date" with "**User**", "**Place**" and "**Sample-Id**" to enter automatically approaching the TAG device (card, key ring or other) to the built-in RFID reader.



Recognition of User, Place and Sample-Id is automatic and is signaled with the appropriate message

RFID reading point
Punto di lettura RFID



1D BLUETOOTH® BARCODE SCANNER

1D Bluetooth® scanner allows to read the bar codes of user, room to monitor and sample.



Principale Technical characteristics

• Technology	Bluetooth®
• Compatible Barcode type	Codabar, Code 93, MSI, Code 128, UCC/EAN-128, CODE39, EAN-13, UPC-A, ISBN, Industrail 25, Interleaved 25, 2/5 Matrix,
• Autonomy	Up to 60 hours
• Charge	Via USB cable supplied

SCANNER CONFIGURATION INSTRUCTIONS

1. Turn on the barcode reader with power switch
2. The blue LED will flash slowly
3. Enter the AIRWEL setup menu and associate your device (see CONFIGURATION MENU)

SCANNER BATTERY CHARGING INSTRUCTIONS

1. Connect the USB cable supplied to the connector on the base of instrument
2. At the end of charging, the LED lights up in blue

1D-2D BLUETOOTH® BARCODE SCANNER

1D-2D Bluetooth® scanner allows reading the bar codes of user, room to monitor and sample.

Reading occurs in Bluetooth® mode as described in OPERATION MODE.



Principale Technical characteristics

Tecnology	Bluetooth®
Power	5 VDC / 5 VCC
Compatible Barcode type	1D Barcode: Code39, Code128, Code93, ISBN, UC, EAN, ITF14, ISBN, I 2of5 2D Barcode: Datamatrix, QRCode, Micro QRCode, Aztec, PDF417, MicroPDF417
Battery	Internal battery 750 mAh Li-ion
Autonomy	6-8 hours, standby 15 day
Charge	Via USB cable supplied

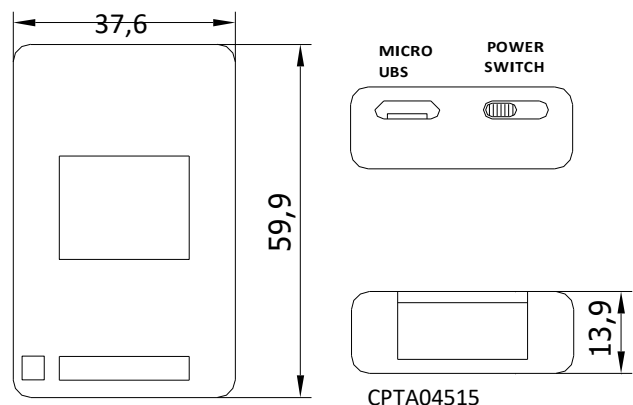
Scanner configuration instructions

1. Turn on the barcode reader with power switch
2. Read the barcode "BlueTooth pairing mode" pressing Reading button
3. The blue LED will flash slowly
4. Enter the AIRWEL setup menu and associate your device (see CONFIGURATION MENU)

Scanner battery charging instructions

1. Connect the USB cable supplied to the connector on the base of instrument
2. At the end of charging, the LED lights up in blue

Dimensions



BlueTooth pairing mode

PART 8 – RESULT CALCULATION & RECORDING

RESULT CALCULATION

The number of micro-organisms counted on the surface of the Contact Plate should be corrected for the statistical possibility of multiples particles passing through the same hole. The statistical formule is taken from the work of J. Maker (http://www.skcinc.com/catalog/pdf/Multiple_jet_impactor.pdf).

A Correction Table is reported here for a plate with 220 holes. The probable count (Pr) is used to calculate the CFU per cubic metre of air.

Example of result calculation

$$X = \frac{\text{Pr} \times 1.000}{V}$$

Where:

V = Volume of sampled air = example 200 lts

R = CFU counted on plate = example 38

Pr = Probable count obtained by Positive hole correction
= example 42

X = CFU per 1.000 lts of air

$$X = \frac{42 \times 1.000}{200} = 200 \text{ CFU} \times 1.000 \text{ litres}$$

The final results in CFU per ft cubic is obtained by multiplying CFU/cubic meter by the value 0,02832.

CORRECTION TABLE TO ADJUST COLONY COUNTS FROM A 219-HOLE IMPACTOR USING 55 mm CONTACT PLATES AND 90 mm PETRI PLATES

Colonies r	MPN Pr	Colonies r	MPN Pr	Colonies r	MPN Pr	Colonies r	MPN Pr	Colonies r	MPN Pr	Colonies r	MPN Pr
1	1	38	42	75	92	112	156	150	252	187	418
2	2	39	43	76	93	113	158	151	255	188	425
3	3	40	44	77	95	114	160	152	258	189	432
4	4	41	45	78	96	115	162	153	261	190	439
5	5	42	46	79	98	116	165	154	265	191	447
6	6	43	48	80	99	117	167	155	268	192	455
7	7	44	49	81	101	118	169	156	271	193	463
8	8	45	50	82	102	119	171	157	275	194	471
9	9	46	51	83	104	120	173	158	278	195	480
10	10	47	53	84	106	121	175	159	282	196	489
11	11	48	54	85	107	122	178	160	286	197	499
12	12	49	55	86	109	123	180	161	289	198	508
13	13	50	57	87	110	124	182	162	293	199	519
14	14	51	58	88	112	125	185	163	297	200	530
15	15	52	59	89	114	126	187	164	301	201	542
16	17	53	60	90	116	127	189	165	305	202	554
17	18	54	62	91	117	128	192	166	309	203	567
18	19	55	63	92	119	129	194	167	313	204	580
19	20	56	64	93	121	130	196	168	317	205	595
20	21	57	66	94	122	131	199	169	322	206	611
21	22	58	67	95	124	132	201	170	326	207	627
22	23	59	69	96	126	133	204	171	331	208	646
23	24	60	70	97	128	134	206	172	335	209	666
24	25	61	71	98	130	135	209	173	340	210	687
25	26	62	73	99	131	136	212	174	344	211	712
26	28	63	74	100	133	137	214	175	349	212	739
27	29	64	76	101	135	138	217	176	354	213	770
28	30	65	77	102	137	139	220	177	359	214	807
29	31	66	78	103	139	140	222	178	365	215	851
30	32	67	80	104	141	141	225	179	370	216	905
31	33	68	81	105	142	142	228	180	375	217	978
32	34	69	83	106	144	143	231	181	381	218	1088
33	36	70	84	107	146	144	234	182	387	219	1307
34	37	71	86	108	148	145	237	183	393		
35	38	72	87	109	150	146	240	184	399		
36	39	73	88	110	152	147	243	185	405		
37	40	74	90	111	154	148	246	186	412		

r = colony forming units counted

Pr = probable count

BLUETOOTH® PRINTER

The printer is powered by rechargeable Ni-MH 6 V 800 mA, and is charged by appropriate USB port on the base station of the instrument.

Printing occurs in Bluetooth® mode as described in OPERATION.



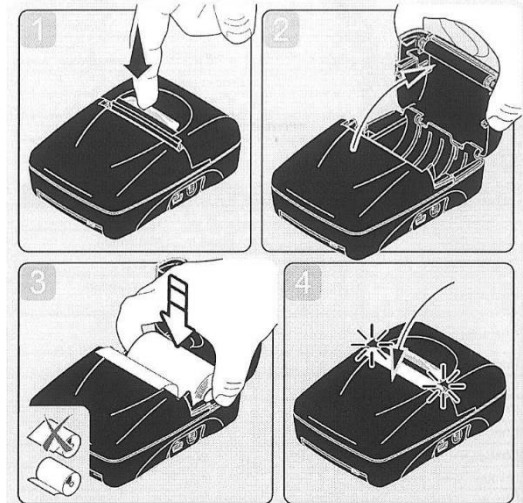
Principale Technical characteristics

Tecnology	Bluetooth®
Power supply	Ni-MH 6 V 800 mA battery
Charge	5 Vcc/USB (max 5 hours)

Insert paper roll

PAPER ROLL INTRODUCTION

1. Push the open button down
2. Open the paper compartment door
3. Place the roll as from image
4. Close the door



BATTERY CHARGING INSTRUCTIONS

1. Connect the USB cable supplied to the connector on the base of instrument
2. At the end of charging, the LED lights up in blue



BYANDROID APP « BAS

“Bas” is the APP for device Android that allows remote control via Bluetooth® devices AIRWEL.

In details:

- Mmanages the connection with the devices
- AIRWEL
- Performs sampling remotely
- Manages reports of sampling (display, import, export)

For the use of the APP BAS refer to the manual dedicated.

BYPC-SOFTWARE « BAS »

“Bas” is the software for personal computer (PC) that allows remote control via the serial and / or Bluetooth® device AIRWEL.

In details:

- Mmanages the connection with the devices
- AIRWEL
- Performs sampling remotely
- Manages reports of sampling (display, import, export)

For the use of the PC-Software BAS refer to the manual dedicated.

PART 10 – MAINTENANCE

CLEANING

The external surface should be cleaned by a normal mild non corrosive detergent.

Do not submerge in water or pour water directly on the sampler.

Do not use acetone or volatile solvents for cleaning.

PART 11 – TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
The instrument not start	The instrument is not turned on	Press the start button for several seconds
	The battery is not sufficiently charged	Charge the battery
	The battery charger does not work properly	Check that the battery charger is connected to the power supply and replace if necessary
	The battery is too old	Replace battery
The battery is discharged after a few minutes	The battery is discharged	Charge the battery
	The battery charger does not work properly	Check that the battery charger is connected to the power supply and replace if necessary
	The battery is too old	Replace battery
Message "Low battery"	The battery is discharged	Charge the battery
Message "Calibration Expired"	The instrument should be recalibrated	Return the instrument to the manufacturer or distributor
The remote control does not turn on the instrument	The battery in the remote control is low	Replace the battery in the remote control
The plate after sampling is dehydrated	The plate is damaged	Check the expiration date and that the plate is not already dehydrated before sampling
	The sampling time is excessive	Shorten the sampling time
The instrument stops after few seconds from the switching on and the message "Head is open" appears on the visual display	The aspirating head has not been applied to the air sampler	The aspirating head must be applied
Message "Head blocked"	The aspirating head is blocked	Remove obstruction

PART 12 – TABLES

Users list

User	Code	Descriptive
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Sampling Places list

User	Code	Descriptive
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

OF XML (eXtensible Markup Language) FILE

datetime-export	device	datetime-start	datetime-end	volume	user	place	id1	id2	id3
2015-06-23 13:39:58.308	403Q031915001	2015-06-23 13:34:34.000	2015-06-23 13:35:08.000	50	Marta	Azzurro	e37351ad	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-19 12:08:18.000	2015-06-19 12:08:51.000	50	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-19 12:01:44.000	2015-06-19 12:02:17.000	50	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-18 17:22:21.000	2015-06-18 17:22:54.000	50	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-18 13:29:03.000	2015-06-18 13:29:35.000	50	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-17 13:33:18.000	2015-06-17 13:33:50.000	50	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-16 14:05:00.000	2015-06-16 14:05:35.000	50	Alba	Aranc	00015009	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-15 16:43:00.000	2015-06-15 16:43:35.000	50	Alba	Aranc	00015008	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-15 14:50:14.000	2015-06-15 14:50:49.000	50	Alba	Aranc	00015007	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-15 12:36:23.000	2015-06-15 12:36:58.000	50	Alba	Aranc	00015006	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-15 11:00:09.000	2015-06-15 11:00:44.000	50	Alba	Aranc	00015005	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-10 17:23:31.000	2015-06-10 17:23:52.000	30	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-10 17:20:31.000	2015-06-10 17:20:46.000	20	Manual	Manual	ffffff	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-10 17:14:20.000	2015-06-10 17:14:55.000	50	Alba	Arancio	00015002	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-10 14:30:32.000	2015-06-10 14:31:28.000	50	User1	CleanRoom1	00015001	0	0
2015-06-23 13:39:58.308	403Q031915001	2015-06-10 14:28:16.000	2015-06-10 14:29:02.000	50	User1	CleanRoom1	ffffff	0	0

PART 13 – OPTIONS

OPTIONS

Bluetooth® Module

Code

BCLO2001 Bluetooth® Module



RFID Module for reading transponder, with antenna

Code

BCLO2015 RFID Module



ACCESSORIES

1D Bluetooth® barcode scanner

Code

BCLO2008 1D Bluetooth® barcode scanner



Portable printer with connection Bluetooth®

Code

BCLO2024 Portable Bluetooth® printer



Bluetooth® key for laptop without connection Bluetooth®

Code

BCLO2026 Bluetooth® key for laptop



APP Android “Bas” for remote control AIRWEL devices complete with Bluetooth®

Code

BCLO2004 APP Android “Bas” for remote control



Dedicated software for PC to data download from AIRWEL devices

Code

BCLO2002 Dedicated software for PC



Location preset RFID card with barcode for identification of the sampling place

Code

BCLO3011 Location preset RFID card with barcode



User preset RFID card with barcode for identification of the user

Code

BCLO3012 User preset RFID card with barcode



LABELS

RFID TAG self-adhesive label for identification of the sample, Ø 20 mm

Code

BCLO3013 RFID TAG self-adhesive label for identification of the sample, Ø 20 mm



CASE

Soft transport bag for AIRWEL, 350X200H170 mm

Code

BCLO2007 Soft transport bag for AIRWEL



Rigid transport case for AIRWEL, 450X350H170 mm

Code

BCLO2013 Rigid transport case for AIRWEL



Stand up holder for Tripod or Trolley

Code

BCLO2005 Stand up holder for Tripod or Trolley



TRIPOD with adapter

Code

BCLO2006 Tripod with adapter



Positioning AIRWEL in STAND UP holder and FLOOR TRIPOD with adapter



SPARE PARTS

BCLO3016	Roll paper width 57 mm, Ø 30 mm for Bluetooth [™] printer
BCLO4001	Ni-MH 6 V 800 mA battery for printer
BCLO4002	Ni-MH 12 VCC 2100 mAh battery pack
BCLO4003	Membrane keyboard, 4 keys
BCLO4004	Electronic circuit board CPU with LCD for AIRWEL+
BCLO4005	Electronic circuit board CPU with LCD and Bluetooth [®] for AIRWEL+

FORM TO DELIVER THE INSTRUMENT TO THE PRODUCER

For the attention of Service Dpt ALLIANCE BIO EXPERTISE
Z.A. de Courbouton - Le Tremplin 35480 Guipry - FRANCE
e-mail: contact@abioexpertise.com

THIS DOCUMENT HAS TO BE DELIVERED TO THE SERVICE DEPARTMENT TOGETHER WITH THE INSTRUMENT
AUTHORIZATION NUMBER

COMPANY DETAILS

COMPANY
ADDRESS
CITY / CAP / STATE
PHONE / FAX
E.MAIL
CONTACT NAME
DEPARTMENT

INSTRUMENT IDENTIFICATION

NAME OF INSTRUMENT, MODEL, SERIAL NUMBER
REASON OF DELIVERY: CALIBRATION / VALIDATION
REASON OF DELIVERY: REPAIR
REASON OF DELIVERY: OTHER (TO BE SPECIFIED)

EXPECTED MALFUNCTIONING

ELECTRONIC PART	
ELECTRIC PART	
MECHANICAL PART	
NOTES	

SENDER IDENTIFICATION

DATE	NAME	SIGNATURE



DECONTAMINATION CERTIFICATE

The microbial air samplers must be delivered to the factory for calibration, servicing, repairing, complete of this certificate of decontamination for safety reasons

CUSTOMER/DISTRIBUTOR IDENTIFICATION

COMPANY	
ADDRESS	
CONTACT NAME	
POSITION IN THE COMPANY	
E.MAIL	
PHONE NUMBER	

AIR SAMPLER IDENTIFICATION

MODEL	
SERIAL NUMBER/CATALOGUE NUMBER	

MATERIAL IN CONTACT WITH THE SAMPLER	
LIQUID, SOLID, AEROSOL	

DESCRIPTION	
CHEMICALS	
BIOLOGICAL MATERIAL	
RADIOACTIVE	

DECONTAMINATION

STERILIZATION BY AUTOCLAVING	TEMPERATURE / TIME
DISINFECTION BY CHEMICALS	
WASHING	WATER / DISINFECTANT

CUSTOMER / DISTRIBUTOR RESPONSIBLE FOR THIS DOCUMENT

NAME	
POSITION	
DATE	
SIGNATURE	

