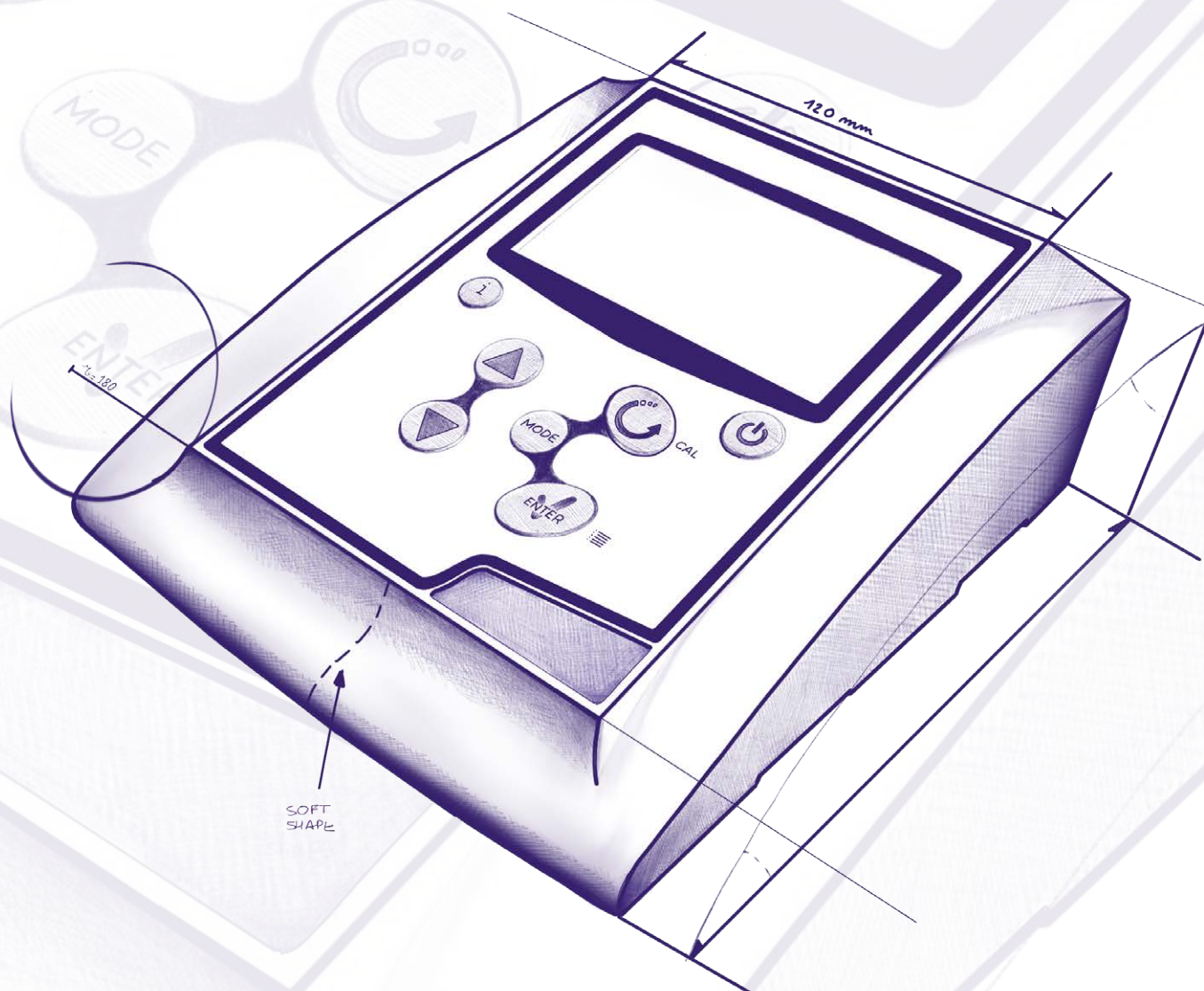# *COND 8+*

COND - TDS - Salinity - Temperature
GLP - USB Data Logger - RS232 printer

COND 80+

COND - TDS - Salinity - Resistivity - Temperature
GLP - GMP - USB Data Logger - RS232 printer

makes Conductivity easy

MADE IN ITALY

Easy is the name of the game

GiorgioBormac company, expert in electrochemistry, has developed this new line of bench meters, finding the correct equilibrium between design and simplicity of use. **Simple to use.**

The wide color display, **simple to read,** shows all the necessary informations, like the measure, the buffer solutions used in the last calibration, the cell constant, GLP informations and the memorized data.

Multilanguage interface that supports English, Spanish, French, German, Italian, Czech… up to 8 languages. Using only 5 keys, the user has the complete control of all the functions. **Simple to understand.**

Up to 4 conductivity calibration points, with automatic recognition of the buffer solutions, standards or defined by the user.

Support to calibration through icons with an advance diagnosis of the conditions of the cell. Saving calibration for each cell constant. **Simple to calibrate.**

COND 8+

COND - TDS - Salinity - Temperature - GLP - Data Logger
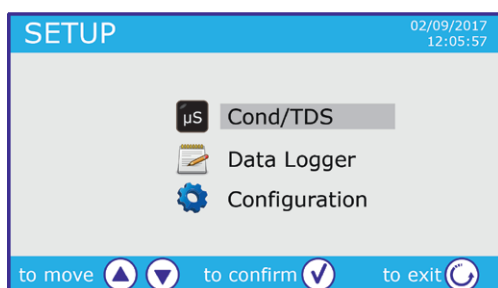
Main features

- **Automatic calibration 1 to 4 points, between 4 conductivity standard values**
- Simultaneous display of COND/TDS/Salinity and temperature
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 plates cell
- Saving and recall calibration for each cell constant
- **Numeric password for calibration management and data memory delete**
- Manual calibration on 1 point (User defined)
- Automatic and Manual temperature compensation, reference values 15…30 °C
- Large color display with indication of calibration standard solutions used and measurement's stability
- Stability indication, with icon
- Memory recall of last calibration, date and time, and informations about the cell constant
- Calibration Timer: set frequency of the calibration for high quality of measurements
- Non-volatile memory holds up to 1000 data , with date and time, automatically (Data logger) or manually, and downloadable on PC with free software "DataLink"or printable
- Stirrer plate included (in stirrer version)
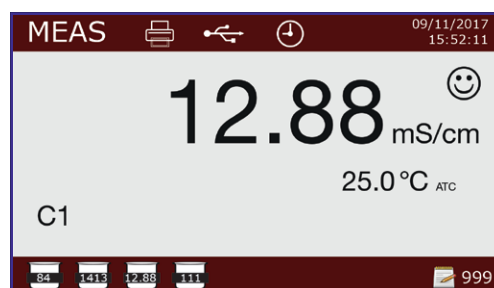- Multilanguage menu setup
- 3 years warranty

COND 8+ Stirrer

Setup menu

Measurement screen

How to order COND 8+

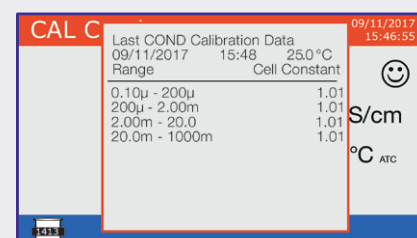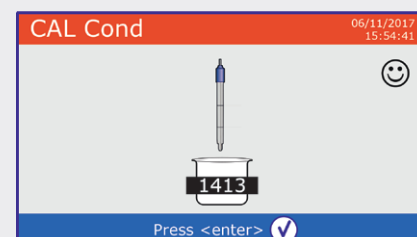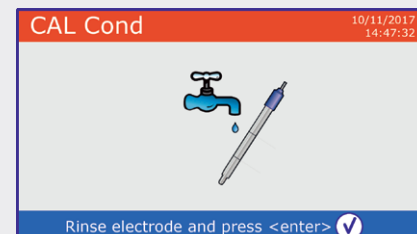| Code	Description
50003232	**COND 8+ kit STIRRER with conductivity cell 2301T**, conductivity standards 1413 µS and 12,88 mS, 2 beckers with magnetic bar, electrode holder and accessories. **With stirrer**
50003242	**COND 8+ kit STIRRER without conductivity cell,** includes conductivity standards 1413 µS and 12,88 mS, electrode holder and accessories. **With stirrer**
50003202	**COND 8+ kit BASIC with conductivity cell 2301T**, conductivity standards 1413 µS and 12,88 mS, electrode holder and accessories. **Without stirrer**
50003212	**COND 8+ kit BASIC without conductivity cell,** includes conductivity standards 1413 µS and 12,88 mS, electrode holder and accessories. **Without stirrer**
50001132	**Magnetic stirrer,** controlled by the meter
50003352	**VPT80/1** conductivity cell **C=1** with ATC, glass body, platinum plate, cable length 1m . Measuring range 10 µS…100 mS, 0…80°C
50004002	**2301T** conductivty cell with ATC, **C=1**, range 10 µS…100 mS, 0…60°C
50004012	**VPT51/01** conductivty cell **C=0,1** with ATC, PVC/ steel, cable length 1m. Measuring range 0,1 µS…1 mS, 0…60°C
50004072	**VPT 80/10** conductivty cell, **C=10**, with ATC, cable length 1m, measuring range 100 µS…200 mS
50002012	**NT 55** temperature probe
50001502	**RS232 printer,** normal paper**,** for series 8+ - 80+
50001512	**Power supply** AC/DC 12 V/1A for series 8+ - 80+

COND 80+

COND - TDS - Salinity - Resistivity - Temperature - GLP - GMP - Data Logger

Main features

- Simultaneous display of COND/TDS/Salinity/Resistivity and temperature
- Resolution: automatic scale - Selectable cell constant allows to use with 2 plates cell
- **Alphanumeric password for calibration management and data memory delete with soft keypad included**
- GLP and IQ-OQ manual available
- Saving and recall calibration for each cell constant
- Automatic calibration from 1 to 4 calibration points, between 4 standard buffer solutions
- Manual calibration on 1 point (defined by the user)
- Wide colored display with indication of calibration standards solutions used and measurement's stability
- Automatic and manual temperature compensation, reference values 15…30°C
- **Compensation for Ultrapure water for low conductivity measurement**
- Memory recall of last calibration, date, time and informations about the cell constant
- Calibration Timer: set frequency of the calibration for high quality of measurements
- Indication of stability
- Non-volatile memory holds up to 1000 data , with date and time, automatically (Data logger) or manually, and downloadable on PC with free software "DataLink"or printable
- Stirrer plate included (in stirrer version)
- 2 USB ports, for PC connection, and for external keyboard included
- RS232 port for printer connection
- Multilanguage menu setup
- Quick on-line manual
- 3 years warranty
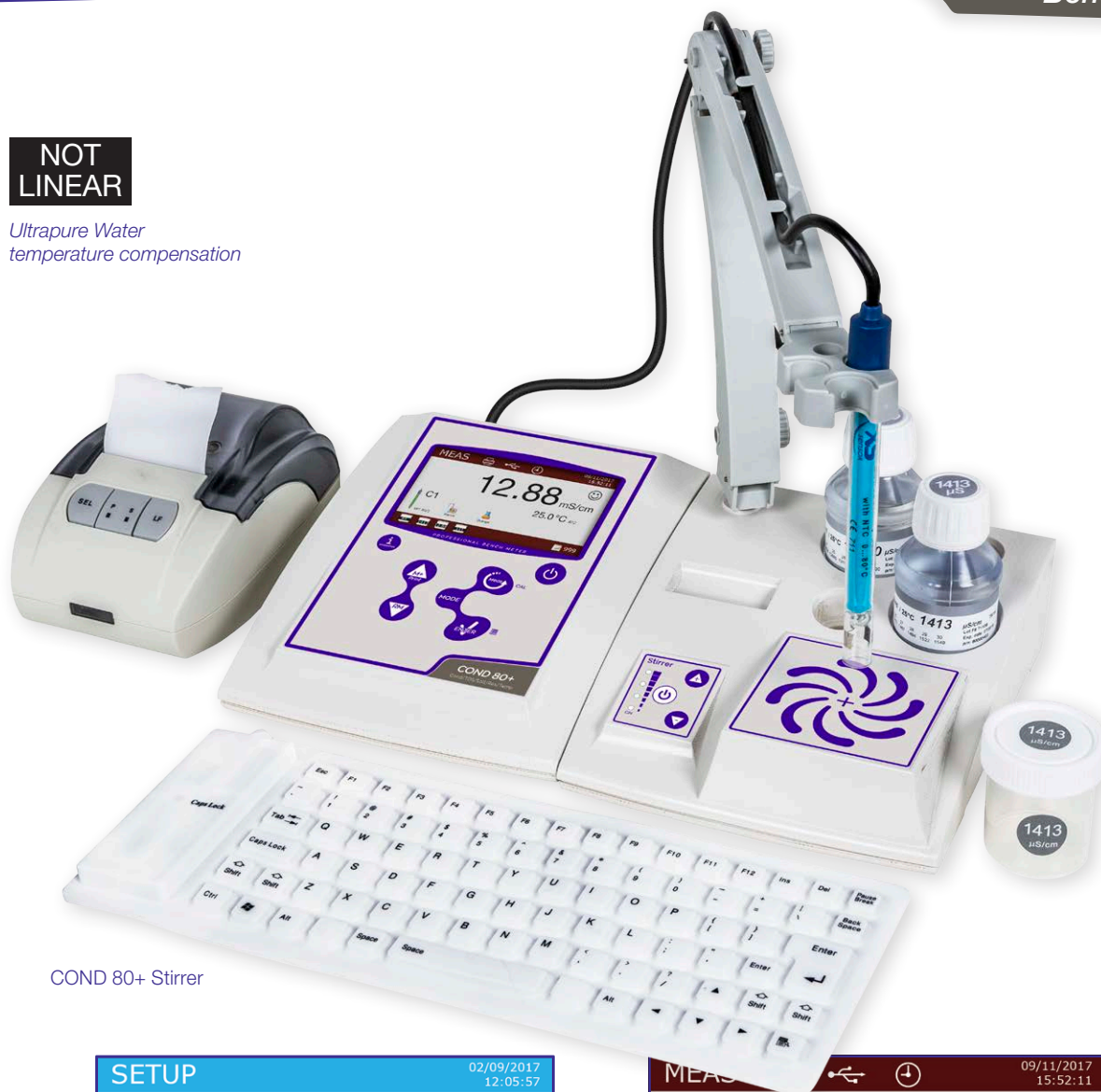
Cond calibration procedure
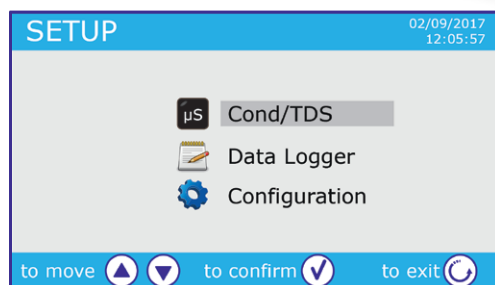

Caption: Back panel COND 80+
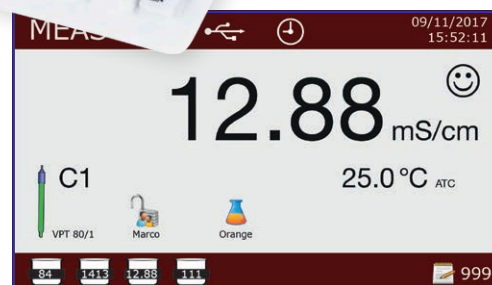
Caption: RS232 printer for COND 8+ e COND 80+

Caption: VPT 51/01 for ultra pure water

NOT LINEAR

*Ultrapure Water
temperature compensation*

COND 80+ Stirrer

SETUP 02/09/2017
12:05:57

µS Cond/TDS
Data Logger
Configuration

to move ▲ ▼   to confirm ✓   to exit ↻

Setup menu

MEAS 09/11/2017
15:52:11

12.88 mS/cm
C1   25.0 °C ATC
VPT 80/1   Marco   Orange
84 1413 12.88 111   999

Measurement screen

How to order COND 80+

Code	Description
50003402	**COND 80+ kit STIRRER with** glass conductivity cell **VPT 80/1**, conductivity standard solutions 1413 µS and 12,88 mS, soft keypad, power supply and acessories. **With stirrer**
50003412	**COND 80+ kit STIRRER without conductivity cell,** includes conductivity standard solutions 1413 µS and 12,88 mS, soft keypad, power supply and acessories. **With stirrer**
50003422	**COND 80+ kit BASIC with** glass conductivity cell **VPT 80/1**, conductivity standard solutions 1413 µS and 12,88 mS, soft keypad, power supply and acessories. **Without stirrer**
50003432	**COND 80+ kit BASIC without conductivity cell,** includes conductivity standard solutions 1413 µS and 12,88 mS, soft keypad, power supply and acessories. **Without stirrer**
50003352	**VPT 80/1** conductivity cell **C=1** with ATC, glass body, platinum plates, cable length 1m. Measuring range 10 µS…100 mS, 0…80°C
50004072	**VPT 80/10** conductivity cell **C=10** with ATC, cable length 1m. Measuring range 100 µS…200 mS
50004012	**VPT 51/01** conductivity cell **C=0,1** with ATC, PVC/ steel, cable length 1m. Measuring range 0,1 µS…1 mS, 0…60°C
50002012	**NT 55 temperature probe**
50001462	**External USB keyboard**
50001502	**RS232 Printer**, normal paper for series 8+ - 80+
50001512	**Power supply** AC/DC 12 V/1A for series 8+ - 80+
50001472	**IQ-OQ Manual**

XS Conductivity Cells

Shaft Material:	Glass
Temperature probe:	No/Yes (on VPT 80/1)
Plates:	Platinum
Length:	120 mm
Diameter:	12 mm

BNC Plug

RCA Cinch Plug

Model	Range COND	Temp. °C	Connection	Note	Code
VP 8	10 µS…10 mS	0…+80 °C	Fix cable / BNC	Cell constant C=1	50004062
VPT 80/1	10 µS…10 mS	0…+80 °C	Fix cable / BNC	Cell constant C=1 temperature probe NTC 30KΩ RCA Cinch plug	50003352

Shaft Materiale:	PVC / Steel
Temperature probe	Yes
Plates:	Steel
Length:	120 mm
Diameter:	12 mm

Model	Range COND	Temp. °C	Head	Note	Code
VPT 51/01	0,1µS…1mS	0…+60 °C	Fix cable / BNC	Cell constant C=0,1 , Temp. probe NTC 30KΩ plug RCA Cinch **for ultra pure water**	50004012

Shaft Material:	Glass
Temperature probe:	Yes
Plates:	Platinum
Length:	120 mm
Diameter:	12 mm

Model	Range COND	Temp. °C	Head	Note	Code
VPT 80/10	100 µS…200 mS	0…+80 °C	Fix cable / BNC	Cell constant C=10 , temp. probe NTC 30KΩ plug RCA Cinch **for sea water**	50004072

Shaft Material:	Epoxy
Temperature probe:	Yes
Plates:	Platinum
Length:	120 mm
Diameter:	12 mm

Model	Range COND	Temp. °C	Head	Note	Code
2301T	10 µS…100 mS	0…+60 °C	Fix cable / BNC	Cell constant C=1 , Temp. probe NTC 30KΩ plug RCA Cinch	50004002

Conductivity standards 5 µS/cm certificated DANAK/DFM

Conductivity standard 5 µS/cm NIST traceability

Certificated DANAK/DFM

Calibration solutions NIST traceability certificate

Conductivity standards

- Ergonomic bottle, 500 ml, with calibration compartment incorporated , with table of conductivity variation as a function of temperature, for an accurate calibration
- 1,3 e 5,0 µS/cm in glass bottle, 300 ml
- Cheaper, just use the necessary for calibration

- 24 months guaranteed lifetime
- **1,3 and 5,0 µS/cm 12 months** guaranteed lifetime
- On the certificate are reported real value and expiry date
- Certificates of analysis downloadable on website

XS Professional with DANAK/DFM certificate

CONDUCTIVITY STANDARDS			
Code	Packaging	Value µS/cm (20°C / 25°C)	Accuracy
51300303	300 ml	1,3	± 0.1 µS/cm
51300313	300 ml	5,0	± 0.1 µS/cm
51300323	500 ml	76 / 84	± 1%
51300333	500 ml	133 / 147	± 1%
51300343	500 ml	1278 / 1413	± 1%
51300353	500 ml	11670 / 12880	± 1%

XS Basic with NIST traceability

CONDUCTIVITY STANDARDS			
Code	Packaging	Value µS/cm (20°C / 25°C)	Accuracy
51100503	300 ml	1,3	± 0.1 µS/cm
51100513	300 ml	5,0	± 0.1 µS/cm
51100613	500 ml	76 / 84	± 1%
51100623	500 ml	133 / 147	± 1%
51100633	500 ml	1278 / 1413	± 1%
51100643	500 ml	11670 / 12880	± 1%

Fill compartment with a simple press

Calibrate the elctrode

Empty the calibration compartment

Datasheet

	COND 80+	COND 8+
COND measuring range	0,00…20,00 - 200,0 - 2000 µS / 2,00 - 20,00 - 200,0 - 1000 mS	0,00…20,00 - 200,0 - 2000 µS / 2,00 - 20,00 - 200,0 mS
Resolution	Automatic scale	
Accuracy	±1 % full scale	
COND calibration points	1…4	
Buffer auto recognition	84, 1413 µS, 12.88, 111.8 mS, 1 defined by the user	
Indication of calibration points	Yes	
Temperature coefficent	Ultrapure Water and 0,00…10,00 %/ °C	0,00…10,00 %/ °C
Reference temperature	15…30ºC	
GLP calibration	Yes, with date and time	
Indication of conditions of the cell	Yes, with icon	
Indication of cell constant	Yes	
Calibration timer with alarm	Yes	
Cell type	2 poles	
Cell constant	0,1 - 1 - 10	
TDS measuring range	0,1 mg/l…500g/l	0,1 mg/l…100g/l
TDS Factor/ Accuracy	0.40 … 1.00 / ±1 % full scale	
Salinity measuring range / Accuracy	0,01…100 ppt / ±1 % full scale	
Resistivity measuring range / Accuracy	1…10 MΩ / ±1 % full scale	—
Temperature °C measuring range / Accuracy	-20,0…120,0 / ± 0,5°C	-10…110,0 / ± 0,5°C
Temperature compensation	Automaric or Manual 0…100°C (NTC 30KΩ)	
Temperature calibration	Yes	
GLP system	Yes	
Password	Yes, alphanumeric	Yes, numeric
Memory	MAN/AUTO 1000 data, with date and time	
Display	Multicolor dot matrix, with icons, digital view	
Input	BNC, Cinch/RCA (ATC), RS232 for printer, USB for PC and USB for external keyboard	BNC, Cinch/RCA (ATC), RS232 for printer, USB for PC connection
Selectable languages	8 languages	
On-line manual	Yes	—
Magnetic stirrer	Yes	
Speed control	0…3000 rpm	
IP protection	IP 54	
Power supply	AC/DC adaptor 12V / 1000mA	
Dimensions	165 x 195 x 68 mm	
Weight	1050 g (without stirrer)	

DISTRIBUTED BY:

WARRANTY 3 YEARS

MADE IN ITALY

CE