

COND346 CONDUCTIVITY BENCH

Bench instrument for measuring electrochemical conductivity, resistivity, TDS, salinity and temperature. Data logger for data storage. Max, Min and Avg functions, Auto-Hold and automatic turning off. RS232C output, USB2.0 for transfer to PC by software dedicated or to a serial printer. Use conductivity probes or temperature combined at 2 or 4 rings. Probes calibration automatic or manual.



Conductivity range

K cell	0.01	0.1	1	10
range (resolution)	0.000...1.999 (0.001) • S/cm	0.00...19.99 (0.01) • S/cm	0.0...199.9 (0.1) • S/cm 200...1999 (1) • S/cm 2.00...19.99 (0.01) mS/cm 20.0...199,9 (0.1) mS/cm	200...1999 (1) mS/cm
Accuracy	±0.5% ±1digit			

Resistivity range

K cell	0.01	0.1	1	10
range (resolution)	up to 1 GΩ-cm *	fino a 100 MΩ-cm *	5.0...199.9 (0.1)Ω-cm 200...1999 (1) Ω-cm 1.00k...19.99 (0.01) kΩ-cm 20.0k...99,9 (0.1)kΩ-cm 100k...999 (1)kΩ-cm 1...10 (1) MΩ-cm	0.5...5 (0.1) Ω-cm
Accuracy	±0.5% ±1digit			

* The resistivity measurement is obtained by the reciprocal of the conductivity value

Total dissolved solids range (with coefficient X / TDS = 0.5)

K cell	0.01	0.1	1	10
range (resolution)	0.00...1.999 (0.005) mg/l	0.00...19.99 (0.05) mg/l	0.0...199.9 (0.5) mg/l 200...1999 (1) mg/l 2.00...19.99 (0.01) g/l 20.0...99,9 (0.1) g/l	10...999 (1) g/l
Accuracy	±0.5% ±1digit			

Salinity range

range	0.000...1.999 g/l	2.00...19.99 g/l	20.0...199.9 g/l
Resolution	1 mg/l	10 mg/l	0.1 g/l
Accuracy	±0.5% ±1digit		

Temperature range

	Range	Resolution	Accuracy	Drift
Pt100	-50...+200°C	0.1 °C	±0.25°C	0.1°C/year
Pt1000				

Temperature compensation: automatic/manual 0...100°C with • T = 0.00...4.00%/°C
 Reference temperature: 20°C or 25°C menu selectable
 Conversion Factor • /TDS: 0.4...0.8
 K cell constant (cm-1): 0.01 - 0.1 - 0.7 - 1.0 - 10.0
 Buffer solution automatic recognized @25°C: 147• S/cm 1413• S/cm 12880• S/cm 111800• S/cm



SATEMA

13856 VIGLIANO B.SE - Via Milano, 395

Tel. +39 015811102 - 015510156 Fax 0158853029

Mail: info@satema.it <http://www.satema.it>

TECHNICAL SPECIFICATIONS

Dimensions WxDxH:	220x120x55 mm
Weight:	460g (with battery)
Materials:	ABS, rubber
Display:	2x4½ digits plus symbols Visible area: 52x42mm
Temperature/%RH:	operative -5 ... 50°C; storage -25 ... 65°C 0 ... 90%RH no condensation
Protection:	IP66
Power supply:	3x 1.5V AA batteries, autonomy 300h 1800 mAh or mains power supply (optional)
Interval storage:	1, 5, 10, 15, 30 seconds, 1, 2, 5, 10, 15, 20, 30 minutes and 1 hour selectable
Date and time:	real time clock
Accuracy:	1 min / month max deviation
RS232C interface:	galvanically isolated, Baud rate 1200/38400, 8 data bits, no parity, 1 stop bit, Xon / Xoff, Max 15m
USB interface:	Type 1.1 - 2.0 galvanically isolated
Connector:	8-pin Mini Din
Logger:	storing 2,000 pages x 18 samples each, 36,000 pairs of measurements composed
Connections:	Inlet conductivity probe 8-pole male DIN 45326 inlet temperature probes c / electronic module 8-pole male DIN45326

ACCESSORIES

Conductivity probes combined with temperature sensor:

03CONDCSPT06	K = 0.7, 0 ... 90°C, 4 electrodes PT, POCAN plastic body, max 5 bar, range 5mS ... 200mS
03CONDCSPT01G	K=0.1 - 0...80°C, 2X elettrodes PT, glass body, max 5 bar, range 0.1...500µS
03CONDCSPT1G	K=1, 0...80°C, 2x elettrodes PT, glass body, max 5 bar, range 10µS...10mS
03CONDCSPT10G	K=10, 0...80°C, 2x elettrodes PT, glass body, max 5 bar, range 500µS...200mS
03CONDCSPH4	K=0.01 - 0...120°C, 2x elettrodes S.S.316, range 0.04• S/cm ...20• S/cm

Standard Buffer Solutions:

03CONDSOL01	500 ml 147 • S
03CONDSOL02	500 ml 1413 • S
03CONDSOL03	500 ml 12880 • S
03CONDSOL04	200 ml 111800 • S

Charger:

13RALISWD10	Mains power supply stabilized 100 ... 240 Vac / 12Vdc-1A
-------------	--

Cables:

13RALI2110CSNM	Cable 8P - 9P sub D female for RS232
13RALI2101USB	USB2.0 cable connector type A- Mini DIN 8P



SATEMA

13856 VIGLIANO B.SE - Via Milano, 395

Tel. +39 015811102 - 015510156 Fax 0158853029

Mail: info@satema.it <http://www.satema.it>