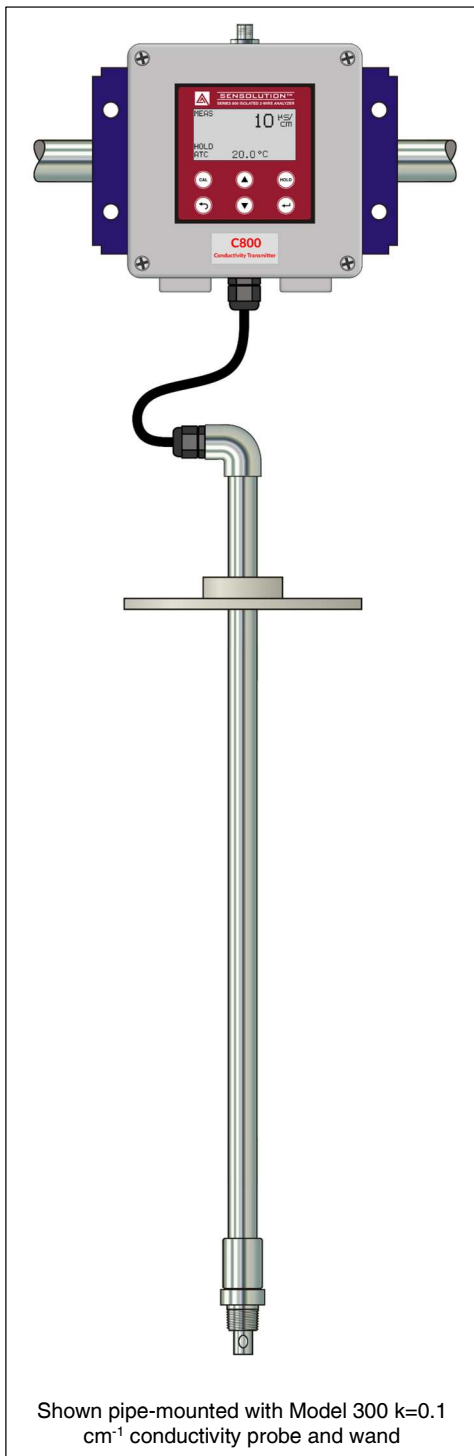




SENSOLUTION™ C800

2-wire Contacting Conductivity Analyser

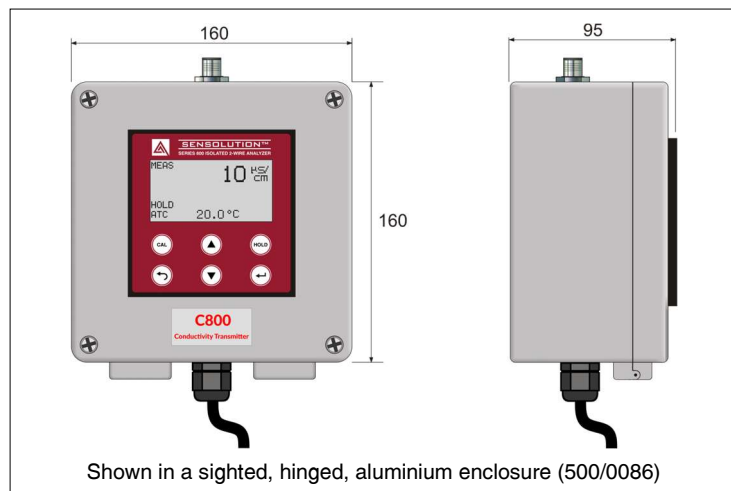
The C800 is a microprocessor controlled, loop powered isolated conductivity analyser with all power being supplied from the two-wire current loop connection. Isolation enables the contacting probe to be at a potential relative to ground without affecting the integrity of the conductivity measurement. The two-wire connection eliminates the requirement of a separate supply in addition to the loop supply voltage.



Features

- Temperature-compensated conductivity measurement.
- Two-wire field mounted analyser – suitable for multiple-loop installations with a central controller.
- Local display of conductivity and temperature – suitable for use as a stand-alone conductivity monitor.
- Isolated 4-20mA signal.
- Simple pushbutton operation.
- Tough IP65 die-cast Aluminium enclosure.
- Plug and socket connectors for easy installation and maintenance.
- Tool-free operation – no dip-switches or potentiometers.
- Suitable for wall mounting.

The C800 two-wire field mounted analysers, with the appropriate sensors, are designed to continuously measure the conductivity in industrial processes. The C800 analysers include all the circuitry necessary for the measurement and transmission of an isolated 4-20mA linear signal. All the analyser's functions are accessible through the pushbutton interface – there are no potentiometers or dip-switches. Calibration of the signal is accomplished using the standard calibration routine. The C800 can also temperature compensate conductivity readings using a 100Ω TC element.



903072-B - C800 Conductivity Analyser Information Sheet



Specifications

Conductivity Resolution	Range 1 (0 to 20.00 $\mu\text{S}\cdot\text{cm}^{-1}$)	0.01 $\mu\text{S}\cdot\text{cm}^{-1}$
	Range 2 (0 to 200.0 $\mu\text{S}\cdot\text{cm}^{-1}$)	0.1 $\mu\text{S}\cdot\text{cm}^{-1}$
	Range 3 (0 to 2000 $\mu\text{S}\cdot\text{cm}^{-1}$)	1 $\mu\text{S}\cdot\text{cm}^{-1}$
	Range 4 (0 to 5000 $\mu\text{S}\cdot\text{cm}^{-1}$)	1 $\mu\text{S}\cdot\text{cm}^{-1}$
Cell constant, k		0.1 cm^{-1}
Temperature Range		0 – 100°C
Temperature Resolution		0.1°C
Temperature Accuracy		$\pm 0.5^\circ\text{C}$
Temperature Compensation		Auto (Pt100) / Manual (from 0°C to 100°C)
Temperature Coefficient Factor Setting		0 to 10%
Normalisation Temperature Setting		25.0°C or 20.0°C
Number of Calibration Points		1
Output		4.0 – 20.0mA
Out-of-Range Current Output	Under-Range	3.8mA / 4mA (selectable)
	Over-Range	3.8mA / 20mA (selectable)
Hold Current Output		22mA / Last measured value (selectable)
Display		Custom Dual LCD
Averaging/Stability (READY indicator)		Yes
Power Requirements		12 to 24Vdc
Load Resistance		600 Ω max.

Ordering Information

500/0085	Sensolution C800 isolated 2-wire contacting conductivity analyser (bare)
500/0086	Sensolution C800 isolated 2-wire conductivity analyser. Sighted, hinged Al Box.
500/9149	Model 300 k=0.1 cm^{-1} Contacting Conductivity sensor with 550mm wand
500/9150	Model 300 k=0.1 cm^{-1} Contacting Conductivity sensor with 700mm wand
500/9151	Model 300 k=0.1 cm^{-1} Contacting Conductivity sensor with 1000mm wand

