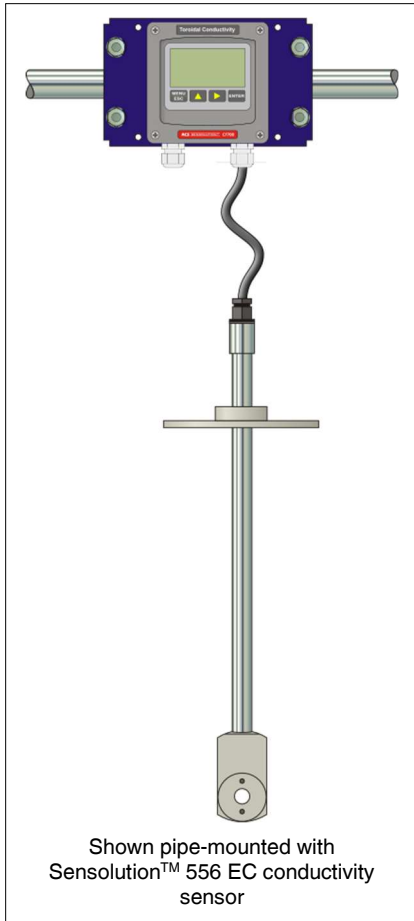




## SENSOLUTION™ CT700

### 2-wire Inductive Conductivity Analyser

The CT700 is a 24V loop-powered, isolated conductivity analyser with all power being supplied from the two-wire current loop connection. Isolation enables the 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.

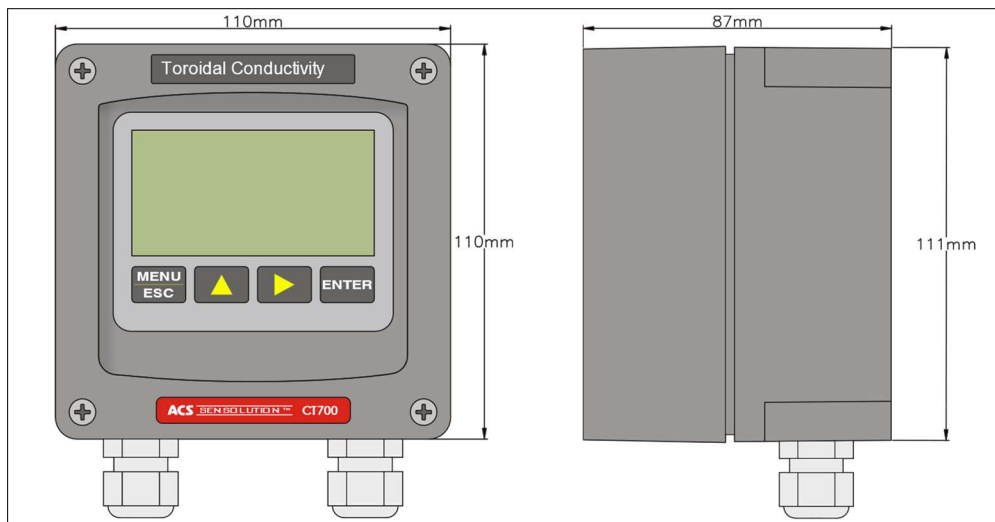


#### Features

- Temperature-compensated conductivity measurement.
- Two-wire field mounted analyser – suitable for multiple-loop installations with a central controller.
- Local display of conductivity/concentration/TDS and temperature – suitable for use as a stand-alone conductivity monitor.
- Isolated 4-20mA signal.
- Simple pushbutton operation.
- NEMA 4x, IP66 polycarbonate enclosure.
- Tool-free operation – no dip-switches or potentiometers.
- Suitable for masthead mounting (as pictured) or wall mounting.

The CT700 two-wire field mounted analysers, with the appropriate sensors, are designed to continuously measure the conductivity in industrial processes. The CT700 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 CT700 can also temperature compensate conductivity readings using a 1000Ω TC element.

#### Dimensions





## Specifications

Conductivity Resolution	0 to 2000 $\mu\text{S.cm}^{-1}$	1 $\mu\text{S.cm}^{-1}$
	0 to 2.000 $\text{mS.cm}^{-1}$	0.001 $\text{mS.cm}^{-1}$
	0 to 20.00 $\text{mS.cm}^{-1}$	0.01 $\text{mS.cm}^{-1}$
	0 to 200.0 $\text{mS.cm}^{-1}$	0.1 $\text{mS.cm}^{-1}$
	0 to 2000 $\text{mS.cm}^{-1}$	1 $\text{mS.cm}^{-1}$
	0 to 2.000 $\text{S.cm}^{-1}$	0.001 $\text{S.cm}^{-1}$
Temperature Range		0°C to 70°C
Temperature Resolution		0.1°C
Temperature Accuracy		$\pm 0.5^\circ\text{C}$
Temperature Compensation		Auto (Pt1000) / Manual (from 0°C to 100°C)
Temperature Coefficient Factor Setting		0 to 4.000%
Normalisation Temperature Setting		0 to 50.0°C
Number of Calibration Points		1 (plus Zero-point)
Output		4.0 – 20.0mA
Hold Current Output		Last measured value
Display		Large, high-contrast LCD
Averaging/Stability (MEAS indicator)		Yes
Power Requirements		16 to 35Vdc
Load Resistance		600 $\Omega$ max.

## Ordering Information

500/0026	CT700 isolated 2-wire inductive conductivity analyser
500/9003	Model 556 Sensolution™ EC Conductivity sensor with 700mm wand
500/9004	Model 556 Sensolution™ EC Conductivity sensor with 1000mm wand

