

Online Conductivity Controller

LOCC-A10



Online Conductivity Controller LOCC-A10 features 3 points conductivity calibration system, TDS measurement mode, and 4 to 20 mA output signal transmitter. The large and clear back light LCD displays Calibration and setup values, Temperature values, ATC (automatic temperature compensation) values, high and low limit of measurement. This controller measures Conductivity and TDS values in $\mu\text{S}/\text{cm}$, and mS/cm units.

Features

- Equipped with industrial conductivity electrode
- 1 to 3 conductivity calibration points, 1 temperature calibration point
- Selectable temperature units $^{\circ}\text{C}$ or $^{\circ}\text{F}$ for diff. applications
- System menu allows setting of up to 9 parameters
- Reset features to resumes all setting back to default
- ATC mode for accurate readings over entire range
- Low and high alarm limits set automatically activate an external device
- Manual temperature calibration improves accuracy

Applications

Used to measure conductivity and TDS values required for quality checking and research purpose across water treatment plants, filtration units, RO treatment plants, Agriculture industry, Aquaculture industry and others.

Specifications

Model no.	LOCC-A10
Conductivity measurement range	0.01 to 20.00, 200.0, 2000 $\mu\text{S}/\text{cm}$, 20.00, 200.0 mS/cm
Conductivity calibration points	1 to 3 points
Conductivity accuracy	$\pm 1\%$ F.S.
Conductivity resolution	0.001/ 0.01/ 0.1/ 1
Conductivity calibration solutions	84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm , 111.8 mS/cm
TDS measurement range	0 to 10.00, 100.0, 1000 ppm, 10.00, 100 ppt (Max. 200 ppt)
TDS accuracy	$\pm 1\%$ F.S.
TDS factor	0.1 to 1.0
Temperature measurement range	0 to 100 $^{\circ}\text{C}$, 32 to 212 $^{\circ}\text{F}$
Temperature accuracy	1 $^{\circ}\text{C}$
Temperature resolution	0.1 $^{\circ}\text{C}$
Temperature calibration points	1 point
Temperature calibration range	Measured value $\pm 10^{\circ}\text{C}$
Signal output	4 to 200 mA
Load	Max. 500 Ω
Low and high alarm limits	0.02 $\mu\text{S}/\text{cm}$ to 20.0 mS/cm , selectable
Interface	RS485
Connection terminals	Detachable screw terminals
Temperature compensation	Automatic, 0 to 100 $^{\circ}\text{C}$, 32 to 212 $^{\circ}\text{C}$
Cell constant	K= 0.1, 1, 10
Environmental conditions	Ambient temperature to $\leq 60^{\circ}\text{C}$, RH $\leq 80\%$
Reference temperature	25 $^{\circ}\text{C}$
Display	LCD
Power	DC 24 V
Dimension (L*W*H)	96 × 96 × 75 mm
Weight	350 g

Standard accessories

Accessories no.	Name	Qty.
1	Industrial Conductivity electrode	1
2	Conductivity calibration solutions (bottle of 84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm , 111.8 mS/cm)	1 each

Optional accessories

Accessories no.	Name	Qty.
1	Industrial Conductivity electrode for measuring pure water	1
2	Industrial Conductivity electrode for measuring general liquids	1
3	Industrial Conductivity electrode for measuring high conductivity liquids	1
4	Conductivity calibration solutions (bottle of 84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm , 111.8 mS/cm)	1 each