

TICON3254 - CONDUCTIVITY TRANSMITTER CELL

This conductivity probe consists of a loop powered transmitter and an electrodeless conductivity sensor in a single package. Temperature compensation is accomplished with a built-in sensor. Applications include water treatment, cooling tower and water monitoring.

When the electrodeless conductivity sensor is immersed in the sample to be measured, a conductive loop is created through the two toroidally wound coils. An alternating current is applied to one of the coils which induces a current in the conductive loop. The second coil is used to measure the conductivity which is proportional to the induced current in the solution.

The advantages of the electrodeless method are more apparent in measurement applications in which electrodes contamination and polarization of a conventional conductivity system can lead to erroneous readings.

Option REG76 Universal Controller

Universal controller - transmitter is used when there is a need to add display functions, control, alarm, and / or automatic cleaning of the sensor to a transmitter capable of performing any type of measurement. The instrument provides:

- Vdc power to power the 4-20 mA loop of the transmitter;
- automatic measurement control function
- alarm from the low/high measurement, the set point overtime operation and the logic input;
- hold / alarm function activated by two external volt free contacts



TECHNICAL SPECIFICATIONS

Measuring method:	toroidal
Power supply:	11/30 Vdc
Temperature sensor:	built-in
Load:	600 ohm max. at 24 Vdc
Max. temperature:	50 °C part in contact with liquid
Temperature coefficient:	2.2 %/°C (2.0 for ST 3214.X)
Temperature reference:	25 °C (20 °C for ST 3214. X)
Max. pressure:	10 bar at 25 °C
Length:	207 mm
Thread:	1 1/2" MNPT (both sides)
Body:	PVC-C
Cable length:	3 m
Installation:	in-line or submersible
Range mS :	0/10; 0/20; 0/100; 0/1000;
OPTION:	REG76 CONTROLLER
Display:	multi-line graphic
Input from:	0-20 or 4-20 mA single or differential
Scale:	- 9999 / +9999 with selectable decimal point
Measuring unit selectable:	4 digit, configurable 2 set-point with min/max function, hysteresis and delay time
Analog output:	0-20 or 4-20 mA isolated for PID regulation or measure transmission
	Min/max alarm relay, activate/deactivate function selectable
	Parameters configuration on two levels with access code selected by the operator
	Two logic digital input for hold or alarm function, selectable
Power supply:	Standard 85/264 Vac - 50/60 Hz, 5 VA; Option 9/36 Vdc – 24Vac
Enclosure:	metallic, IP 65 frontal protection
Dimensions:	98x98x104 mm (90x90x95 mm back)



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