4-wire 4.00 - 20.00 mA output

CONDUCTIVITY/TDS TRANSMITTER









The Art of Measurement

CONDUCTIVITY/TDS TRANSMITTER

Model: TRCD-431

FEATURES

*	Build in temperature sensor, ATC (auto temperature compensation).
*	1.413 standard solution are standard accessories.
*	4-wire installation.
*	Linear current output (4.00 - 20.00 mA)
*	Easy installation and connection.
*	Conductivity range 1 : 0 to 200 µS.
*	Conductivity range 2 : 0 to 2.000 µS.
*	Conductivity range 3 : 0 to 20 mS.
*	TDS (Total Dissolved Solids) range 1:0 to 132 ppm.
*	TDS (Total Dissolved Solids) range 2 : 0 to 1320 ppm.
*	TDS (Total Dissolved Solids) range 3:0 to 13200 ppm.
*	Power supply by DC 9 ~ 30 V .
*	Available for wide applications, such as aquarium,
	beverage, fish hatcheries, food processing,
	photography, laboratory, quality control, school &
	colleges, swimming pools, water conditions.

General Specifications (23 ±5 °C)

Conductivity Probe	The cabon cellc type probe				
Measurement	Conductivity range 1: 0 to 200 uS.				
& Range	Conductivity range 2 : 0 to 2000 µS. Conductivity range 3 : 0 to 20 mS.				
	TDS (Total Dissolved Solids) range 1: 0 to 132 ppm. TDS (Total Dissolved Solids) range 2: 0 to 1320 ppm. TDS (Total Dissolved Solids) range 3: 0 to 13200 ppm.				
CD Calibration	1.413 mS points (15.30 mA)				
Accuracy	Conductivity ± (3% F.S . + 1d)				
(23±5°C)	TDS ± (3% F.S. + 1d)				
Analog	Analog output: 4 to 20 mA.				
output	* linear for range.				
Loop impedance	Max. 200 Ω@24 V DC.				
Power supply	Power 9 to 30VDC@200 mA.				
	* Ripple< 2.5% (Isolated)				
Operation Temp.	0°C to 70°C .				
Operation humidity	Max. 85% RH.				

Electrical Specifications (23 ± 5 °C)

A. CONDUCTIVITY

RANGE	Measurement	Resolution	Accuracy
2000 µS	0 to 200 μS	0,1 μS	± (3% F.S . + 1d) *F.SFull scale
2000 μS	0 to 2.000 µS	1 µS	
20 mS	0 to 20.00 mS	0.01 mS	

* Temperature Compensation : Automatic from 0 to 60 °C , with temperature comensation factor variable between 0 to 5.0% per°C * mS -milli Simens * µS - micro Simens * 23 ± 5°C

B. TDS (Total Dissolved Solids)

RANGE	Measurement	Resolution	Accuracy
2000 ppm	0 to 132 ppm	0.1 ppm	± (3% F.S. + 1d)
2000 ppm	0 to 1320 ppm	1 ppm	*F.SFull scale
20000 ppm	0 to 13200 ppm	10 ppm	

* Temperature Compensation : Automatic from 0 to 60 °C , with temperature comensation factor variable between 0 to 5.0% per°C * ppm - parts per milli * 23 ± 5°C

^{*} Appearance and specifications listed in this brochure are subject to change without notice.