MODEL 450 CONDUCTIVITY TRANSMITTER
Specification

Physical Data	
PROPERTY	***CHARACTERISTIC***
Display	Four and one half LCD digits, 1.5 cm (0.6 in) displays for conductivity, temperature, error codes, prompts and diagnostic information
Display Ranges	Conductivity: 0 µS/cm to 9,999 µS/cm and 0 mS/cm to 9,999mS/cm TDS: 0 to 9,999 ppm (parts per million) or mg/L and 0 to 9,999 ppt (parts per thousand) or g/L Temperature: -10.0 °C to 210 °C (14.0 °F to 410 °F)
Keypad	4 pushbutton entry keys
Case Dimensions	10 cm × 10 cm × 10 cm (4 in × 4 in × 4 in)
Surface Mounting Dimensions	Horizontal: 5.4 cm (2 1/8 in) Vertical: 11.7 cm (4 5/8 in)
Weight	0.9 kg (2.0 lb)
Shipping Weight	1.4 kg (3.0 lb)
Shipping Dimensions	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)

Environmental Data	
PROPERTY	***CHARACTERISTIC***
Temperature	Operational: 5.0 °C to 45 °C (41.0 °F to 113 °F) Storage: -10.0 °C to 55 °C (14.0 °F to 131 °F) Relative Humidity: 80 % maximum; non-condensing
Enclosure Ratings	IP65 (NEMA 4X)
Electrical Ratings	24 VDC (min. 17 VDC, max. 36 VDC); lift off voltage 17 VDC. 4 to 20 mA.
Electrical Requirements	17 VDC to 36 VDC, 24 VDC nominal. Quality ground required for microprocessor.

29 Centennial Road, Orangeville, ON, L9W 1R1 Phone: (519) 941-8161 Fax: (519) 941-8164
Toll Free (North America) 1-800-265-9161 Internet: sales@iccontrols.com

MODEL 450 CONDUCTIVITY TRANSMITTER
Specification

Operational Data	
PROPERTY	***CHARACTERISTIC***
Accuracy	Conductivity: ± 0.5 % of measured range Temperature: ± 0.3 °C
Precision	Conductivity: ± 1 digit (0.01 µS/cm) Temperature: ± 1 digit (0.1 °C)
TDS (total dissolved solids) measurement	calculated by multiplying conductivity at 25°C by solids contact factor (SCF) of 0.7; SCF adjustable within range of 0.5 to 1.1.
Response Time	90% within 5 s (default), function of flow and temperature. Damping adjustment: 0 s to 60 s
Temperature Compensation	Automatic 1000 Ω RTD Auto: -10.0 °C to 210 °C (14.0 °F to 410 °F) Manual: -10.0 °C to 210 °C (14.0 °F to 410 °F)
Cell Constant Range	0.01/cm to 100.0/cm
Output	One continuous, programmable 4 mA to 20 mA output; isolated, max. load 250 Ω. Convertible to 1 VDC to 5 VDC.

Function	***Compensation Type***	***Characteristic***
Default	Linear	2 % per °C
Adjustable	Linear	0.1 % to 5.0 % per °C

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