



**Pathfinder**  
**INSTRUMENTS**

## Data Sheet

### Pathfinder Model CT2MR Conductivity Transmitter 4-20mA Current Loop Powered Transmitters



#### Description

The PFI-Series of Sensor Transmitters are designed to be easily adapted to meet specific OEM or end-user requirements for full scale mapping of the 4-20 mA loop current (or 1 to 5 VDC) to the desired sensor measurement range. Units are provided with on-board adjustments for span and offset or with fixed settings where calibration is performed in the loop receiver. Five jumper selectable ranges are available to work with any K-factor for additional ranges.

#### Specifications

- ☑ Response times After a 30 second warm-up, For conductivity: For settling time 1-3 seconds for maximum stability
- ☑ Offset & Gain Set per user's specifications or selectable preset jumpers.
- ☑ Output levels 4-20 mA nominal with 13-24 VDC compliance voltage at the transmitter
- ☑ Loop Polarity Reverse polarity protected
- ☑ Shock & vibration Normal commercial/industrial use, extended protection on request
- ☑ Operating Temperature -40 to +85 °C
- ☑ Temperature Compensation Optional (special order), requires external temperature sensor
- ☑ Case Bud AN1301 metal, or PN1320 plastic enclosures (Shown above)
- ☑ Water Resistance NEMA-4/IP67 when properly closed
- ☑ Certifications ROHS, CE and others pending. Intrinsically safe on request
- ☑ Warranty One year, parts and labor, repair or replace at DASCOR'S option

## Features & Options

- ☒ Pathfinder, Inc. or private labeled
- ☒ Common mechanical design
- ☒ Optional Submersible quick disconnect or cable glands
- ☒ Water resistant enclosure (NEMA 4)
- ☒ Local zero and span adjustments Multiple ranges and K-factors (1mS to 25mS Full Scale-at K=1)
- ☒ ESD, overvoltage, and reverse polarity protected
- ☒ Wide compliance voltage range
- ☒ Voltage or 4-20 mA Current loop outputs
- ☒ Operates with PLC's, alarm controllers, or panel meters
- ☒ Maintains galvanic isolation when used with an appropriate isolated power supply and receiver
- ☒ Design easily customized to meet specific requirements

## Variations and Options

- ☒ Fixed gain and offset, case permanently sealed
- ☒ Internal zero and gain adjustments with O-ring sealed cover
- ☒ Connector type: multiple available—user to specify
- ☒ Instrumentation cable: length, wire gage, shielding and termination
- ☒ Internal terminal blocks, solder points, or Pin-headers brought outside the case for plug-in terminal blocks.

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