R350D Remote Display

ELECTRO-CHEMICAL DEVICES

Features

- 12.7 mm (0.5") Digit Height
- 4-20mA Loop Powered Indication
- Low Volt Drop
- Programmable Decimal Points
- LED Backlighting (30mA @ 5V typ.)
- Band gap Reference
- Wide Adjustment Range
- Auto-polarity on Display
- IP67 / NEMA 4X Protection via BEZ 700-IP

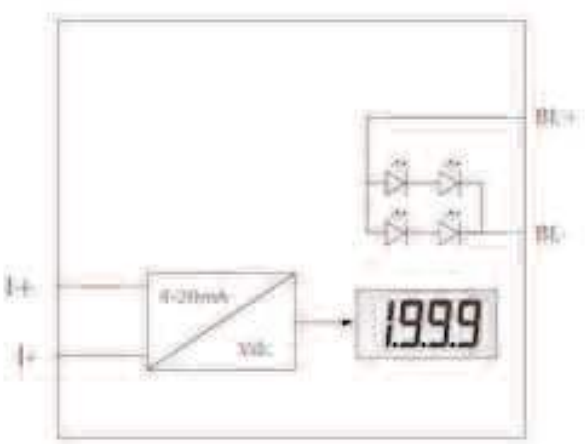
Model R350D
4-20 mA Remote Display

Description

The R350D 3 1/2 digit liquid crystal display (LCD) is calibrated to directly read any process variable between of -1999 and +1999. The display is loop powered by any 4 to 20 milliamp loop and responds to the current being driven through the loop. The display is housed in a windowed, corrosion resistant, weatherproof enclosure (rated NEMA 4x). The reflective LCD does not wash out, or fade in intense direct light. As the incident light is increased, the display becomes sharper with greater visibility, making it an ideal indicating device for outdoor installations.

Access to the wiring is made available through a 1/2-inch conduit knockout in the bottom of the enclosure. The wiring information is located on the PCB. Mounting hardware is available for wall, pipe or panel as standard factory installed options. For convenience during installation, the complete electronic assembly lifts out of the enclosure via the keyed hinging arrangement leaving only the essentials for mechanical installation.

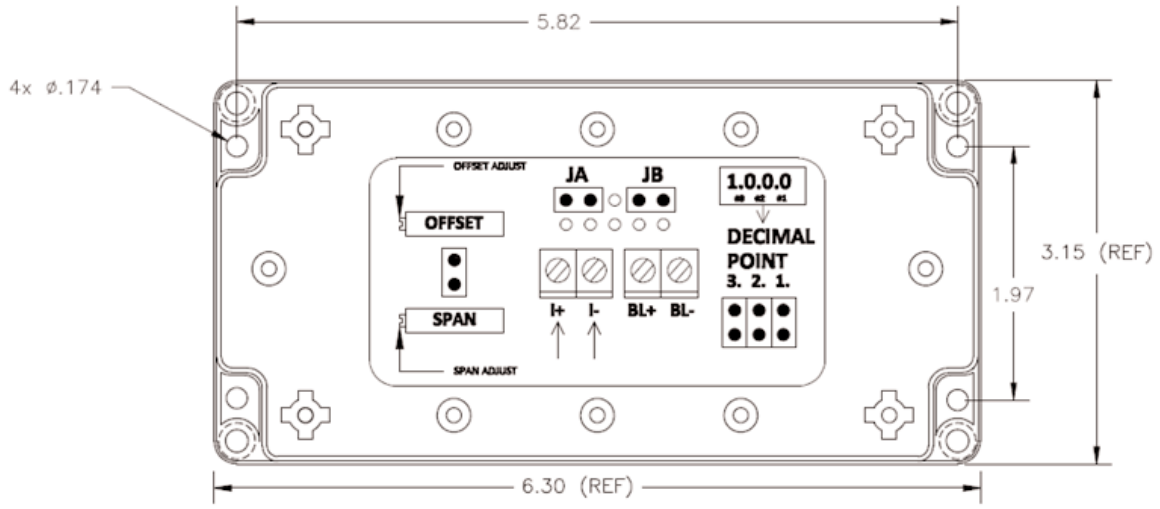
Although the circuit board has a conformal coating to endure highly corrosive and humid environments, the wiring port must be sealed to protect the display surface itself. The screws that hold the cover on the enclosure are captive to the cover, preventing misplacement or loss of small hardware during routine maintenance.



R350D Remote Display

Specification	Minimum	Typical	Maximum	Units
Accuracy*	0.05		0.1	% (±1 count)
Linearity			±1	count
Sample Rate		2.5		Samples/sec
Operating Range	0 (32)		50 (122)	˚C (˚F)
Temperature Stability		200		ppm/˚C
Loop Volt Drop	5	5.6		V
Supply Current	4		20	mA
Backlight Supply Voltage	4.75	5.0	**	VDC
Backlight Supply Current @ 5VDC		30	50***	mA
Full Scale Reading (20 mA)	0		1999	count
Offset Adjustment Range	-1999		+1999	count

* To ensure maximum accuracy, re-calibrate periodically.
** An external series resistor is required if the power supply is above 5V.
*** This specification linearly de-rates to 30mA @ 50°C.



Part No.	Parts and Accessories Description
1100090	4-20 mA Remote Display

Specifications subject to change without notice.

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CERTIFIED ISO9001 QUALITY SYSTEM