



4-20mA 2.5kV ISOLATED TRANSDUCER



CORROSION CONTROL

Description

4-20mA transducers, supplied by BAC Corrosion Control Ltd are used for the electrical isolation and transmission of 4-20mA current signals. They feature 3 way isolation which guarantees reliable decoupling of the input signals from the processing circuit and the supply, preventing measurement circuits from influencing each other.

Features

- High Voltage Isolation (2.5kV)
- 3 way isolation
- Wide supply range
- Excellent linearity
- Calibrated equipment
- Compact design
- Din rail or bolt down fixing
- Alarm LED

Functioning

The input signal is firstly conditioned using an amplifying circuit. This is then passed through an isolation circuit which uses an IRLED and photo diode to separate and isolate the circuits. This isolated circuit is passed through a buffer and into a current transmitting amplifier. Finally, it is then made available at the output. The unit is fitted with an error LED which detects an open circuit.

Specification

Supply Voltage	15V-35VDC 12-24VAC
Operating current (no Load)	40mA
Transmission error	<0.1%
Adjustment	None required. Factory calibrated.
Test Voltage	2.5kV
Ambient Temperature range	-20°C to +65°C
Protection Type	IP20
Type of connection	Screw/plug in connection
Input Signal	User defined
Maximum input signal	250Vdc (on 200V models)
Output signal	4-20mA
Maximum output signal	≤30V @20mA
Load	<1.5KΩ
Short circuit protection	Indefinite (automatic recovery)
Weight (g)	85
Dimensions (mm)	106x36x60

All meters are calibrated and are traceable to national standards. Information subject to change without prior notice.

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