



Functional Description:

This single channel device is designed to provide an analog 0/4-20 mA signal to a control system that is converted from an RTD, T/C, or mV signal in a hazardous area.

This device has the added function of a relay output that can be used for under/over range conditions or to monitor a limit value.

The measuring range and device functions are set via rotary switches or slide switches on the side of the device.

Features:

- 1 channel temperature input
- Accepts 2, 3, or 4-wire RTD's, T/C's or mV
- Switch configurable by user
- Temperature range adjustable
- Configurable limit value relay output
- Over/under current indication of 0 or 22 mA
- Internal or external CJC configurable

Electrical Parameters:

Inputs: Hazardous Area

Supply Voltage - (20-250 VAC or 20-125 VDC)
 2, 3 or 4-wire 100 Ω Ni or Pt RTD's
 Range -200°K to +800°K (Pt100), -60°K to +250°K (Ni100)
 T/C's B, E, J, K, N, R, S, T
 Low Voltage -160 mV to +160 mV
 Resistor current approx. 200 microamps

Outputs: Non-Hazardous Area

0/4-20 mA (Load 600 Ω max)
 Relay: 250 VAC/120 VDC, 2A
 500 VA/60 W 10Hz

For entity parameters see control drawings on pages B86 - B91.

Temperature Converters **IM34-12Ex-Ri**

Pin #	Terminal Function
1	(+) T/C or mV Input
2	(-) T/C or mV Input
3	3 or 4-wire RTD Connection
4	4-wire RTD Connection
5	2, 3 or 4-wire RTD Connection
6	2, 3 or 4-wire RTD Connection
7	(+) 0/4-20 mA Output
8	(-) 0/4-20 mA Output
9	Alarm Contact
10	Alarm Contact
11	Module Power (+) or AC
12	Module Power (-) or AC

