



Functional Description:

This single channel device will allow a controller in a non-hazardous area to provide a 1:1 transfer of a 0/4-20 mA signal to a device in a hazardous area. Valve controllers or I/P devices that are intrinsically safe, as well as signals that are "IS" originating from another non-hazardous area, may be accommodated. Bi-directional HART communications capability is also incorporated.

Features:

- 1 channel 0/4-20 mA current driver
- HART or non-HART compatible
- Allows bi-directional HART communications
- Facilities for non-hazardous area HART monitoring
- Linearity of less than 0.1%
- Temperature drift less than 0.01% /K

Electrical Parameters:

Inputs: Hazardous Area

Supply Voltage (19-29 VDC)

0-20 mA

24 mA can be transferred max load of 430 Ω

Input Resistance 110 Ω

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.

Analog Output Isolators

IM35-11Ex-Hi/24 VDC

Pin #	Terminal Function
1	(+) 0/4-20 mA Field Output
2	(-) 0/4-20 mA Field Output
3	No Connection
4	No Connection
5	No Connection
6	No Connection
7	(+) 0/4-20 mA Non-Hazardous Area Input
8	No Connection
9	No Connection
10	(-) 0/4-20 mA Non-Hazardous Area Input
11	Module Power (+)
12	Module Power (-)

