4-20 mA alarm module

iT401

SPECIFICATIONS

INPUT	
Front panel push buttons:	
Mode/reset	controls mode for programming or reset of latched relays
Increase/decrease	Changes programming parameters
Reset input, terminal connection	contact closure for reset of latched relays
Input signal:	
4-20 mA input	uses signal from any 4-20 mA source
Loop load	247.5 Ω, ±5%
OUTPUT	
Alarm relay contacts, 1 form-C	(3) alarm relays
Alarm relay function	latching or non-latching
Relay contact load:	
70°C (resistive)	8 Amp, 250 VAC/30 VDC
85°C (resistive)	5 Amp, 250 VAC/30 VDC
Inductive	1/3 HP, 125 VAC
Alarm trip (each alarm)	high or low setpoint[1]
Alarm action delay (each alarm)	0 to 99 seconds
Alarm setpoint (each alarm):	
Vibration signal	0 to 99% of full scale, in 1% increments
Bias voltage	0 to 18 V in 1V steps[2]
Redundant 4-20 mA output	2 mA to 22 mA[2]
PHYSICAL	
Mounting	35 mm DIN “T” rail
Width	22.5 mm
Depth, front of panel to back of DIN rail	127 mm
Height	100 mm
Front panel switches	tactile membrane
Front panel digital display	dual 7-segment yellow LED, 0.3”
Front panel alarm LED display[1]	high (red), low (yellow), BOV (orange)
Front panel connectors	4-position removable screw terminal plugs
ENVIRONMENTAL	
Operating temperature	–40° to +85°C
Humidity, maximum	95% RH, non-condensing
Altitude, above sea level, maximum	3,000 meters (10,000 ft.)
Power requirements:	
Voltage	24 VDC, nominal[2]
Current, maximum	150 mA[3]

Key features

- Front panel tactile membranes give access to all settings
- Front panel 7-segment LED displays
- Digital processing
- External alarm contacts for signal or BOV faults
- Works with any 4-20 mA device
- Easily programmable relay activation
- Relays have >2,000 VAC isolation
- Manufactured in ISO 9001 facility

Notes: [1] The three front panel alarm status LED displays are tri-color: red, yellow and orange; are illuminated when that alarm is “On” with color indicating whether it was set as a high, low or BOV alarm.
[2] Power for the iT401 is supplied via TBUS connector inside DIN-mount from external power supply (using iT032 and iT033/034/035 connectors).
[3] Current draw is determined at 24 Volts DC power.

Accessories supplied: (1) iT032 TBUS connector for iT401 module; (4) iT042 4-position wire connectors

CE

Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

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