

# **4-20 mA alarm module** iT401



The iT401 is the first alarm module designed to work with any 4-20mA loop-powered device and/or the iT Series sensor signal-conditioning modules, providing easily-programmable relay activation for use in condition-based monitorinng or process control.

Digital technology, along with simple face-panel push-buttons and a bright digital display means never having to open the unit to alter setpoints. Memory allows user to decide to keep changes permanently, or restore manufacturer defaults.

#### Key features

- 35 mm DIN rail mount
- Front-panel tactile membrane switches give access to all settings
- Front-panel 7-segment LED displays
- TBUS connection to iT Series modules
- Digital processing
- Relays have over 2,000 VAC isolation
- Mounts adjacent to iT Series transmitter modules
- External alarm contacts for signal or BOV faults
- Alternate direct 4-20
  mA signal input

#### Certifications

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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Contact

## 4-20 mA alarm module

### iT401

### **SPECIFICATIONS**

INPUT			Contact
Front panel push buttons: Mode/reset Increase/decrease Reset input, terminal connection		controls mode for programming or reset of latched relays changes programming parameters contact closure for reset of latched relays	Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway
Input signal:	TBUS connector 4-20 mA input Loop load	direct connect to vibration transmitter uses signal from any 4-20 mA source 247.5 $\Omega$ , ±5%	Germantown MD 20876, USA Tel: +1 301 330 8811 Fax: +1 301 330 8873
OUTPUT			info@wilcoxon.com
Alarm relay contacts, 1 form-C		(3) alarm relays	www.wilcoxon.com
Alarm relay function		latching or non-latching	
Relay contact load	70° C (resistive) 85° C (resistive) Inductive	8 Amp, 250 VAC/30 VDC 5 Amp, 250 VAC/30 VDC 1/3 HP, 125 VAC	
Alarm trip (each alarm)		high or low setpoint <sup>1</sup>	Accessories supplied:
Alarm action delay (each alarm)		0 to 99 seconds	• (1) iT032 TBUS connector for iT401 module
Alarm setpoint (each alarm): Vibration signal Bias voltage		0 to 99% of full scale, in 1% increments 0 to 18V in 1V steps⁴	• (4) iT042 4-position wire connectors  Optional accessories: iT042 4-position spare wire
Redundant 4-20 mA output		2 mA to 22 mA <sup>4</sup>	
PHYSICAL			connector for iT401 module; iT033, iT034, iT035 TBUS (pow-
Mounting		35 mm DIN "T" rail	er) wiring connectors for use
Width		22.5 mm	with non-iT 100/200/300 series transmitter modules
Depth, front of panel to back of DIN rail		127 mm	
Height		100 mm	Notes: <sup>1</sup> The three front panel
Front panel switches		tactile membrane	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" alarm, "low" alarm, or BOV alarm.
Front panel digital display		dual 7-segment yellow LED, 0.3"	
Front panel alarm LED display		high (red)¹, low (yellow)¹, BOV (orange)⁴	
Front panel connectors		4-position removable screw terminal plugs	
ENVIRONMENTAL			<sup>2</sup> Power for the iT401 is supplied
Operating temperature		–40 to +85° C	via TBUS connector inside DIN-mount from either iT Series transmitter (using iT031 and iT032) or external power supply (using iT032 and iT033/034/035
Humidity, maximum		95% RH, non-condensing	
Altitude, above sea level, maximum		3,000 meters (10,000 ft)	
Power requirements: C	Voltage urrent, maximum	24 VDC nominal <sup>2</sup> 150 mA <sup>3</sup>	connectors). <sup>3</sup> Current draw is determined at 24 Volts DC power.
			<sup>4</sup> When used with an iT Series

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