

# MM1005

# 4 to 20 mA SINGLE ALARM WITH 24 VDC POWER SUPPLY FOR TWO-WIRE TRANSMITTER

## **FEATURES**

- Provides a DPDT Relay Contact Closure at a Preset DC Current Input
- · Standard Fail-Safe Operation
- Red and Green LED Alarm Status Indicators
- · Adjustable Deadband
- 24 VDC Power Supply for Two-Wire Transmitters
- 4/20 mA Input Range
- · 10 Year Warranty

### **DESCRIPTION**

The MM1005 monitors a DC current input and trips a dpdt, 5 A relay when the input exceeds the desired level. Normal operation has the relay energized for the non-alarm condition and it de-energizes for an alarm condition. This provides a fail-safe alarm condition for loss of power to the module. The alarm has a set of red/green LEDs to indicate alarm status.

The module contains a 24 VDC transmitter power supply specifically designed for use with two-wire and other 24 VDC powered transmitters.

The deadband adjustment allows a deadband of 0.5% to 100% of span to be set into the module. The deadband is symmetrical about the setpoint.

All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning.

#### **TYPICAL APPLICATIONS**

HI/LO pressure alarm, level/position control, temperature alarm, etc.

# **SPECIFICATIONS**

#### **INPUT RANGE**

4/20 mA

#### **INPUT IMPEDANCE**

61.9 ohms

#### TRANSMITTER POWER SUPPLY

24 VDC regulated, 30 mA max

#### **SETPOINT**

0 to 100% of span

#### **DEADBAND**

0.5% to 100% of span

#### **RELAY CONTACTS** (dpdt)

Resistive Load
5 A max, 150 W max,
220 VAC max, 30 VDC max
Inductive Load
(Power Factor ≥ 0.4)
2.5 max, 75 W max,
220 VAC max, 30 VDC max

#### TRANSISTOR OUTPUT (Option V)

Relay driver (12 V coil, ≥ 220 ohms) or open-collector outputs sink 100 mA, 30 V supply max

#### **RESPONSE TIME**

20 ms typical

#### **ACCURACY**

 $\pm 0.1\%$  of span or 10  $\mu V$  whichever is greater

#### **COMMON MODE REJECTION**

120 dB, DC to 60 Hz

#### **OPERATING TEMPERATURE**

14°F to 140°F/-10°C to 60°C

#### **TEMPERATURE STABILITY**

 $\pm (0.02\% \text{ of span} + 30 \,\mu\text{V})/^{\circ}\text{C}$  max

#### **POWER**

115 VAC ±10%, 50 or 60 Hz (2.5 W max) 230 VAC ±10%, 50 or 60 Hz (2.5 W max)

# ORDERING INFORMATION

D	$\sim$	M	ᆮ	D

☐ 115 VAC, 50/60 Hz Power☐ 230 VAC, 50/60 Hz Power

#### **ALARMS**

**Alarm Selection - Output** 

☐ Relay

☐ Transistor, O.C.

Alarm Type

☐ High ☐ Low

Alarm Logic

☐ Normal - De-energize On Alarm

☐ Reverse - Energize On Alarm

**Enter Setpoint Input Level** 

Setpoint 1

#### **OPTIONS**

Conformal Coating

**TAGS** 

**Specify Tag Numbers** 

Tag number is typed on product label at no charge.

**Enter Tag Number(s)** 

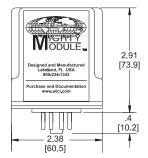
# **ACCESSORIES**

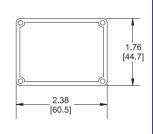
#### MM1005

DR1 DIN-Rail, 35 mm Symmetrical, 39 inches (1 meter) Qty MP011 Plastic Socket, 11-Pin, Panel Mount or PVC Snap Track Qty\_\_\_ PVC Snap-Track, 4 ft, for MP008, MP011, & DMP8500 TRK48 Qty DIN-Rail Mounting Socket, 11-Pin, 35 mm Symmetrical Rail **DMP011** Qty Holddown Assembly for MP008 and MP011 CLP1 Qty HKB-HK2D-11 Explosion-Proof Housing with MP011 Installed Qty\_\_\_

# **DIMENSIONS**

Inches [mm]





# **CONNECTIONS**

PIN 1	Power AC L1
PIN 2	24 VDC +
PIN 3	Power AC L2
PIN 4	Input +
PIN 5	Input - & 24 VDC -
PIN 6	Relay Set 1 NO
PIN 7	Relay Set 1 C
PIN 8	Relay Set 1 NC
PIN 9	Relay Set 2 NO
PIN 10	Relay Set 2 C
PIN 11	Relay Set 2 NC



2915 Parkway Street Lakeland, FL 33811-1391 · USA

800-234-1343

Tel: 863-647-2000 · Fax: 863-644-5318 www.wici.com · Email:sales@wici.com