

## MM1620

## **AC INPUT DUAL ALARM**

## **FEATURES**

- · Provides Relay Contact Closures at Preset AC Input
- Fail-Safe, Latching and Adjustable Deadband **Available**
- Red and Green LED Alarm Status Indicators
- 50 mV or 1 mA Minimum Input Span
- · Unlimited\* Choice of Input Ranges
- Choice of Power Options
- 10 Year Warranty

## **DESCRIPTION**

The MM1620 monitors an AC input signal and provides two sets of spdt, 5 A alarm relays with two independently adjustable setpoints. Each setpoint has a set of red/green LEDs to indicate alarm status. When the input is between the setpoints, the relays are normally de-energized. When the signal exceeds a particular setpoint, the relay becomes energized. To provide a "fail-safe" operation (loss

of power resulting in an alarm state), select Option R. The module can be supplied as a HI/HI, HI/LO, or LO/LO alarm (HI/LO supplied if not specified).

Standard deadband on both alarms is fixed at 0.5% of span. (Option A provides adjustable deadband of 0.5% to 100% of span.) Option D, latching alarms, has no deadband control. Once the limit has been reached, the alarm latches and power to the module must be momentarily interrupted to reset the alarm.

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

## **TYPICAL APPLICATIONS**

AC motor/current limit, AC power status or demand warning.

## **SPECIFICATIONS**

## **INPUT RANGE**

Voltage select any range from 0 to 250 V rms max (min span 50 mV)

Current

select any range from 0 to 1 A rms max\*\* (min span 1 mA, internal shunt)

#### **DEADBAND**

Standard fixed 0.5% of span (Option A) 0.5% to 100% of span (Option D) Latching. Interrupt power to

## **COMMON MODE REJECTION**

120 dB, DC to 60 Hz

### **OPERATING TEMPERATURE**

14°F to 140°F / -10°C to 60°C

## **TEMPERATURE STABILITY**

(2.5 W max)

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(DC Power Option)

±0.02% of span / °C max

115 VAC ±10%, 50/60 Hz

230 VAC ±10%, 50/60 Hz

24 VDC (limits 21-32 VDC)

12 VDC (limits 10-16 VDC)

Isolation, DC power supply to

input common: 10 megohms

\* Within specified range limits.

## INPUT FREQUENCY

40 Hz to 1 kHz Sinewave

## **INPUT IMPEDANCE**

Voltage 200 kilohms

Current

Current Input	Current Shunt Value
1 mA	100 OHM
10 mA	10 OHM
20 mA	5 OHM
100 mA	1 OHM
1 A	0.1 OHM

## reset.

**RELAY CONTACTS** (spdt) Resistive Load

> 5 A max, 150 W max, 240 VAC max, 30 VDC max

Inductive Load

1/8 HP max at 120/240 VAC

## TRANSISTOR OUTPUT

(Option V) relay driver  $(12 \text{ V coil}, \geq 220 \text{ ohms})$ or open-collect or outputs sink 100 mA, 30 V supply max

#### **RESPONSE TIME**

1 sec typical

## **ACCURACY**

±0.5% of span

**POWER** 

\*\* For input values greater than 1 A rms select appropriate external shunt resistor and use with 0-500 mV rms input.

### **SETPOINT**

each alarm 0 to 100% of span

# ORDERING INFORMATION

POWER	Alarm Logic
☐ 115 VAC, 50/60 Hz Power	☐ Normal - Energize on Alarm
☐ 230 VAC, 50/60 Hz Power	☐ Reverse - De-energize on Alarm
☐ 24 VDC Power, Transformer Isolated	Enter Setpoint - Input Level
☐ 12 VDC Power, Transformer Isolated	Setpoint 1
INPUT	Setpoint 2
Select Units	Adjustable Deadband (Option A)
☐ VAC ☐ mAAC ☐ AAC	□ Yes □ No
Enter Input	
Zero Scale	OPTIONS
	☐ Conformal Coating
Full Scale	_
	TAGS
ALARMS	Specify Tag Numbers
Alarm Selection Output	Tag number is typed on product label
☐ Relay ☐ Transistor, O.C.	at no charge.
Alarm Type	•
☐ High/Low	Enter Tag Number(s)
☐ High/High	
□ Low/Low	

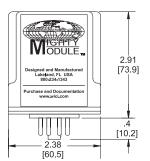
## **ACCESSORIES**

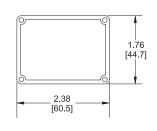
## MM1620

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

## **DIMENSIONS**

Inches [mm]





## CONNECTIONS

PIN 1	Power AC L1 or DC +
PIN 2	No Connection
PIN 3	Power AC L2 or DC -
PIN 4	Input Signal
PIN 5	Input Common
PIN 6	Relay 1 NO
PIN 7	Relay 1 C
PIN 8	Relay 1 NC
PIN 9	Relay 2 NO
PIN 10	Relay 2 C
PIN 11	Relay 2 NC



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