# Series 16 Modules Controls – Solid State Plug-In Modules

- Compact Size
- ▶ Modular Plug-in Design
- ▶ Various Time Delays
- ▶ Low Voltage Sensor
- ▶ Solid State Reliability
- ▶ LED Monitoring
- ▶ U.L. "Motor Control"

# Series 16M – General Purpose Control

• New Microprocessor Design

Designed for either differential or single-level service. U.L. "Motor Controller" listing, 8 pin socket with screw-type connections make the unit easy to install and service. Sensitivity of up to 1 million ohm/cm.

# Series 16HM - High Sensitivity Control

Series 16HM is similar to Series 16M but provides higher sensitivity up to 5.5 million ohm/cm. Probe voltage is 12 VDC for applications with low conductive media.

#### Series 16DM - DPDT Load Contact

Similar to Series 16M but with DPDT load contacts. Eliminates the need for slave relays. 11 pin octal plugs. Requires little panel space. General purpose single-level or differential applications. U.L. listed.

# Series 16VM - Field Selectable Sensitivity

Similar to Series 16M but with the added flexibility of field adjustable sensitivity, made possible through external setpoint resistors. Uses 11pin octal socket. U.L. listed.

# **Specifications**

Contact Design	
Series 16M & 16HM	1 N.O. & 1 N.C. (1 form C)
Series 16DM	2 N.O. & 2 N.C. (2 form C)
Series 16VM	1 N.O. & 1 N.C. (1 form C)
Contact Rating (120. 240 VAC)	
Series 16M & 16HM	10 amp Resistive 1/3 hp
Series 16DM	5 amp Resistive 1/10 hp
Series 16VM	10 amp Resistive 1/3 hp
Mode of Operation	Direct/Inverse, factory set
Sensitivity	
Series 16M	0-1M ohm, factory set
Series 16HM	0-5.5M ohm, factory set
Series 16DM	0-1M ohm, factory set
Series 16VM	0-1M ohm, field adjustable
Primary Voltage	24 VAC, 120 VAC, 240 VAC (+10%/-15%)
	208/240: 187 V min. to 255 V max. VAC 50/60 Hz
Secondary Voltage	
Series 16M	12 VAC, 1.5 mA
Series 16HM	12 VDC
Series 16DM & 16VM	12 VAC, 1.5 mA
Temperature	-40°F to +150°F (-40°C to +65°C)
Approvals	U.L. 508 File #E44426
Terminal Style	Screw connector
Options	Time Delays





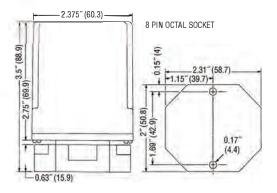
Series Topivi/To

# **Applications**

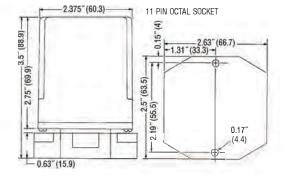
- · Single-Level Service
- Point Level
- · Valve Control
- · Differential Service
- Alarms
- · Pump Control

#### **Dimensions**

## Series 16M & 16HM



#### Series 16DM & 16VM

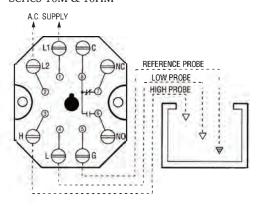


Note: Controls also available with DIN mount socket.



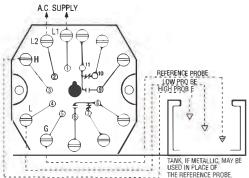
## Wiring

#### Series 16M & 16HM

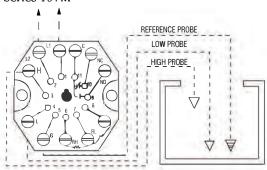


Note: For single level service, use "H" and "G" connections.

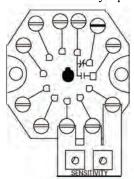
#### Series 16DM



#### Series 16VM



## Variable Sensitivity Option



Part number 16Z1VG Potentiometer Board available for 16VM only. Consult factory.

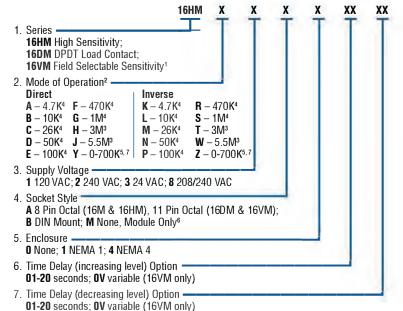
#### How to Order

Use the **Bold** characters from the chart below to construct a product code.

#### 16M Series – Microprocessor Version Series -16M General Purpose; 2. Mode of Operation Direct Inverse P - 100KA - 47KE - 100KK - 4.7KB - 10KF - 470KL - 10KR - 470KC - 26KG - 1MM - 26K**S** – 1M N - 50KD - 50K3. Supply Voltage -1 120 VAC; 2 240 VAC; 3 24 VAC; 8 208/240 VAC 4. Socket Style\* A 8 Pin Octal M Module Only **B** 8 Pin DIN 5. Enclosure -0 None; 1 NEMA 1; 4 NEMA 4 6. Time Delay (increasing level) Option **00-90** seconds Blank O seconds 7. Time Delay (decreasing level) Option 00-90 seconds Blank 0 seconds 8. Time Out Option See page E-11, Chart A

\*See page E-11 for descriptions.

# 16 HM, 16DM or 16VM Series



#### Notes:

- 1. 16VM select modes A, K, Y or Z only.
- 16HM & 16DM only. Series 16VM includes full set of the resistors listed above. Specify a sensitivity to determine mode of operation.
- . 16VM only.
- 4. All Series except 16HM.
- 16VM only.
- 6. Socket style M requires enclosure 0 None.
- 7. Mounting style A (11 pin octal only)

Socket Details and Option Availability are located on web site.