

# Series 16 Modules

## Controls – Solid State Plug-In Modules

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

### 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 16M/16HM

Series 16DM/16VM

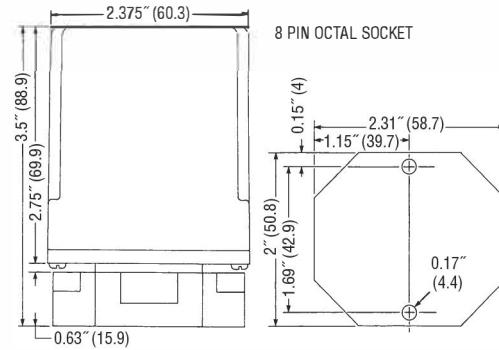


### Applications

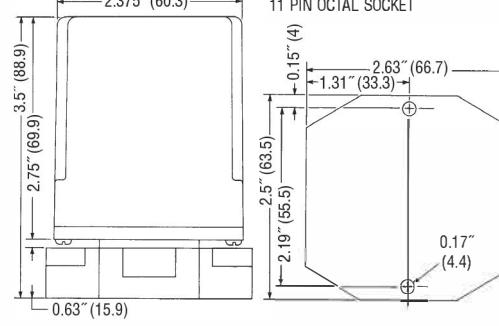
- Single-Level Service
- Point Level
- Valve Control
- Differential Service
- Alarms
- Pump Control

### Dimensions

#### Series 16M & 16HM



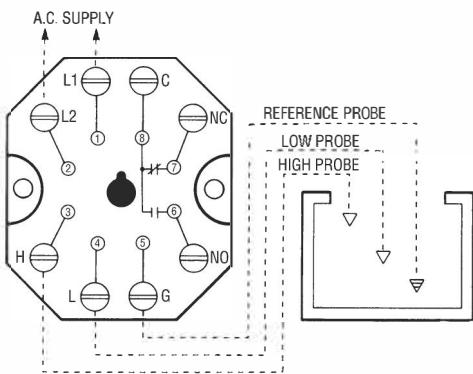
#### Series 16DM & 16VM



Note: Controls also available with DIN mount socket.

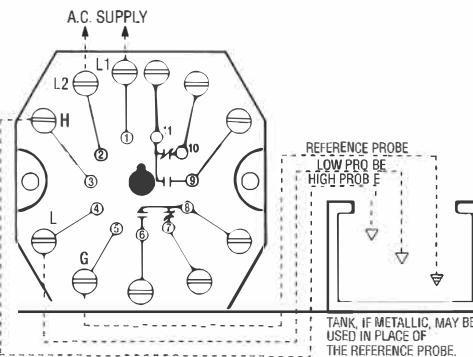
## Wiring

### Series 16M & 16HM

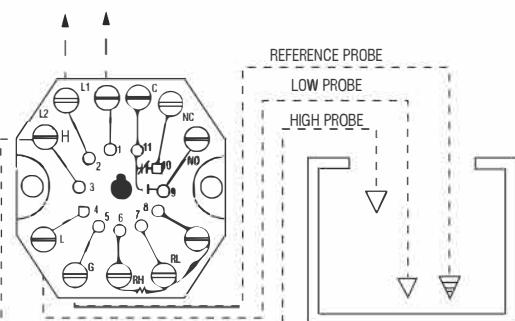


Note: For single level service, use "H" and "G" connections.

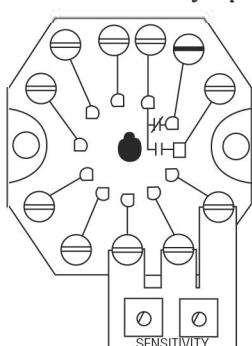
### Series 16DM



### Series 16VM



### Variable Sensitivity Option

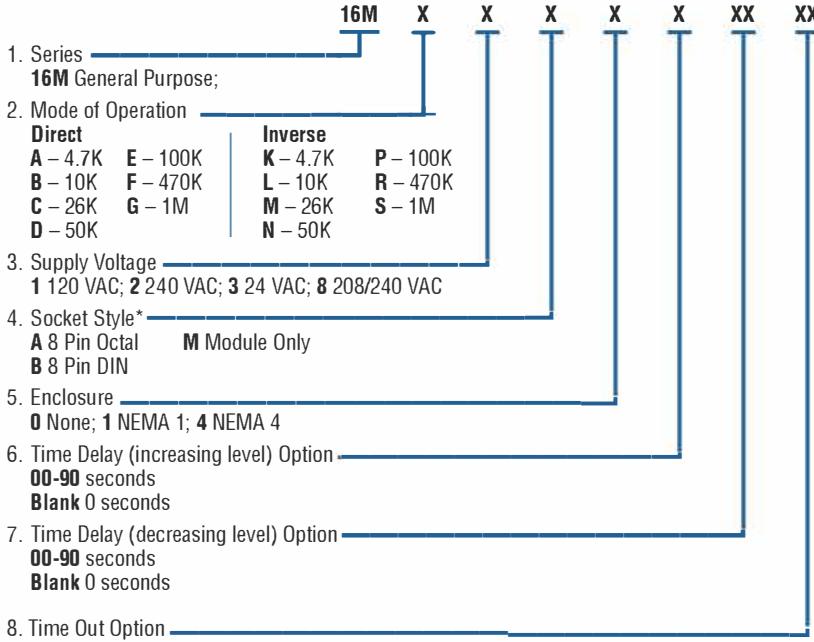


Part number 16Z1VG Potentiometer Board available for 16VM only.  
Consult factory.

## How to Order

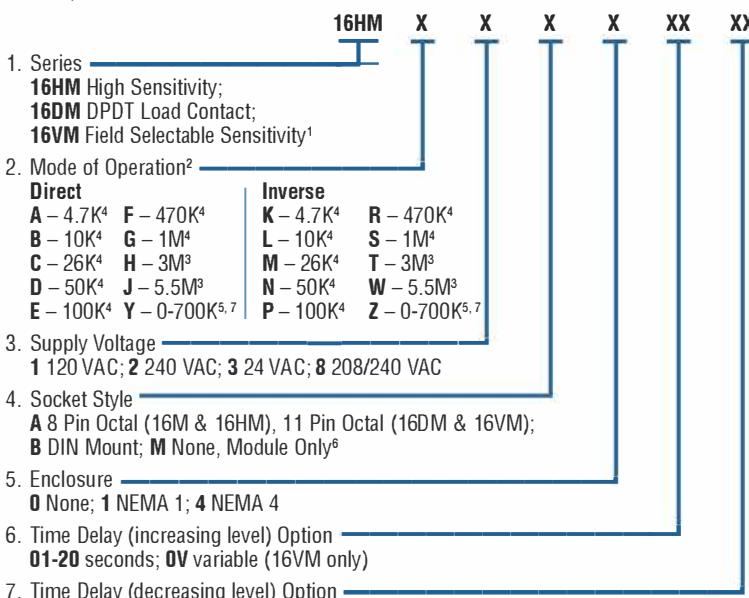
Use the **Bold** characters from the chart below to construct a product code.

### 16M Series – Microprocessor Version



\*See page E-11 for descriptions.

### 16 HM, 16DM or 16VM Series



#### Notes:

1. 16VM select modes **A**, **K**, **Y** or **Z** only.
2. 16HM & 16DM only. Series 16VM includes full set of the resistors listed above. Specify a sensitivity to determine mode of operation.
3. 16VM only.
4. All Series except 16HM.
5. 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.