

**DESCRIPTION** The MAI-VIN interface module is designed to convert a 0-5V or 0-10V linear signal to a 0-20mA signal capable of driving phase angle fired power controllers. The MAI-VIN-A interface module is designed to convert a 0-5V or 0-10V pulsed signal to a "smooth" 4-20mA signal capable of driving phase angle fired power controllers. **NOTE:** Set temperature controller to fastest time proportioning and no filtering or averaging.

**ORDERING NOTE:** MAI/VIN is either 0-5V or 0-10V input, specified by adding -05 or -10 to part number.

## INSTALLATION



**WARNING: FIRE HAZARD!!** Even the best electronic components CAN FAIL SHORTED, KEEPING FULL POWER ON! Provide a completely SEPARATE (redundant) OVER TEMPERATURE SHUTDOWN MEANS to switch power off if safe temperature is exceeded.



**WARNING: HIGH VOLTAGE!!** This control must be installed in a GROUNDED enclosure by a qualified electrician. Provide a safety interlock on door to remove power before gaining access to device.

**ELECTRICAL CONNECTIONS** See "WIRING DIAGRAM" on back. Wiring must be performed in accordance with any and all applicable local and national codes.

## SPECIFICATIONS

### INPUT SIGNAL:

MAI-05V.....	0-5VDC (linear)
MAI-10V.....	0-10VDC (pulse)
MAI-05V-A.....	0-5VDC (pulse)

OUTPUT SIGNAL: ..... 0-20mA (linear)

OUTPUT IMPEDANCE: ..... 1000 ohms (20V max.)

### INDICATORS:

GREEN LED .....	Power "ON", verify output connection
YELLOW LED .....	4-20mA output

### ISOLATION:

LINE - SIGNAL.....	2500 VAC
INPUT - OUTPUT .....	not isolated

REGULATION: ..... zener voltage regulated

POWER REQUIREMENT: ..... 5W @ 120V, 208-277V, and 480V

WEIGHT: ..... 1 lb.

## WARRANTY

All Avatar Instruments products carry a full three year, from date of purchase, parts and labor warranty against component failure and defects in workmanship. In the event your controller fails to perform properly, **contact Avatar to obtain a return authorization number.** Controllers sent to Avatar for warranty service that have no apparent defect will be treated as a standard repair and a \$50.00 charge will be applied. Avatar will repair or replace any unit that failed due to defective parts or assembly. This warranty DOES NOT cover damage due to shipping, abuse, misapplication or operation beyond specified rating. Avatar is not responsible for any subsequent or other damage experienced in use of this device.



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# PHYSICAL DIMENSIONS & WIRING DIAGRAMS MAI-05V, MAI-05V-A & MAI-10V

