

AVATAR INSTRUMENTS MAI/MAP MANUAL

DESCRIPTION The MAI/MAP interface module is designed to convert a variety of input signal types (including 0-20mA, DC voltage, 135 ohm thermostat and 100-1000 ohm potentiometer) to a 0-20mA (4-20mA, potentiometer input) signal capable of driving up to 1000 ohms (20V max. output). The MAI/MAP may be used as a voltage amplifier for driving multiple power controls. The MAP interface comes standard with a 500 ohm potentiometer w/ two feet of wire, 0-100% dial and knob for panel mounting.

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:

POT 100-1000 ohm (500 ohm optimum)
0-20mA..... <1.5V (75 ohm input Z)
DC Voltage input consult Avatar

OUTPUT SIGNAL: 0-20mA (4-20mA using 100-1000 ohm potentiometer input)

OUTPUT IMPEDANCE: 1000 ohms (20V max.)

ISOLATION:

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

REGULATION: zener voltage regulated, OP amp controlled current source

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 MAP / MAI

