

FEATURES

- 24VAC or DC operation
- Zero potentiometer
- Small size 1.10" by 2.19"
- Two mounting options

APPLICATIONS

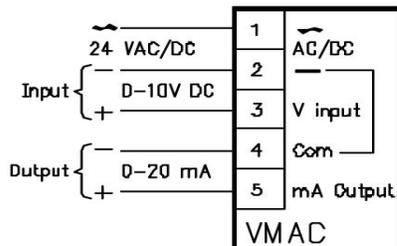
- Converts 2 to 10VDC to 4 to 20mA to drive HVAC
- Converts 0-5VDC to 0-20mA
- NOT for VFD applications

DESCRIPTION & OPERATION

The VMAC was designed as a low cost signal converter for those applications where HVAC DDC controllers have a 0-10VDC output without the capability of driving the current required by actuators that use a 4-20mA input signal. When the 0-10VDC is scaled to 2-10VDC the VMAC's output will be 4-20mA. The VMAC is not isolated and uses the same common for the input, output, and 24VAC/DC power supply common. The VMAC may be mounted in SnapTrack inside electrical enclosures or potted for mounting in exposed field locations.

The VMAC uses a half wave rectifier for 24VAC/ DC power, with terminal 2 being common for the power supply, input and output common (terminal 4). The input signal is reduced to 0-1V which is compared against a 0-1V generated by the 0-20mA output circuitry. The output current is load dependent with the load resistance able to vary between 100 and 600 Ohms. A calibration potentiometer allows for field adjustment for a 10V input signal to correspond to 20mA output with the specific load resistance connected to the output. Factory calibrated with a 250V load resistance.

WIRING CONFIGURATION



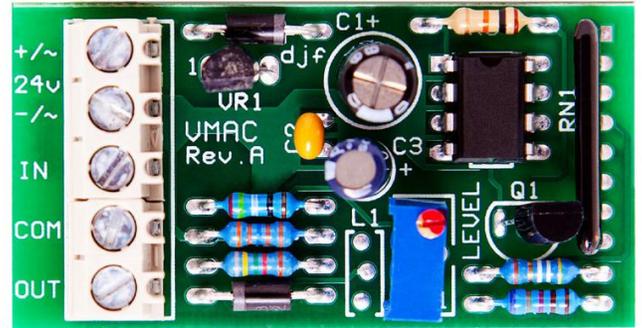
ORDERING INFORMATION

- VMAC/ 5V/X - 0 to 5VDC Input
- VMAC/10V/X - 0 to 10VDC Input

MOUNTING CODE OPTIONS

- S 2.187" SnapTrack
- P Potted enclosure

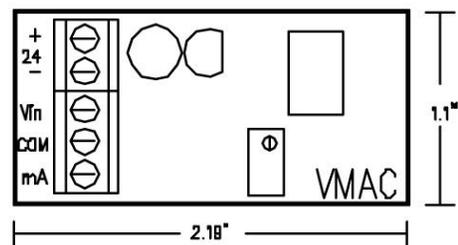
SnapTrack



SPECIFICATIONS

SIZE:	1.10"L x 2.19"W x .75"H
MOUNTING:	2.187" RDI SnapTrack (supplied) 1" Double sided foam tape
POWER:	24VAC, ± 10%, 50/60Hz, .6VA 24VDC, @ 45mA (or filtered DC)
INPUT:	0-5 VDC (VMAC/5V) 0-10VDC (VMAC/10V)
INPUT IMPEDANCE:	≥ 100KΩ
ACTION:	Direct with 2 Hz filtering
OUTPUTS:	0-20mA - Standard Calibrated for 4-20mA with a 2 to 10VDC input signal Maximum load 600Ω (Factory calibrated with 250Ω load)
ADJUSTMENT:	1 Calibration potentiometer for 20mA output @ 10VDC input
AMBIENT TEMP:	0 to 50°C

PHYSICAL CONFIGURATION SNAPTRACK



Potted



