

Specifications

Signal Input

Type: Software selectable for passive or active sensors & terminal block jumper for active sensors.

AC Input (sine wave):

Input Impedance = 2K ohms
Sensitivity @ 1KHz = 200 mVrms
Max. Voltage Input = 25 Vrms
CMRR = > 40 db @ 1KHz, ref. to input amplifier threshold.

Pulse Input (TTL compatible):

Input Impedance = 2K ohms
Min. Pulse Width = 10 μ s
Logic 0 = V in < .5V
Logic 1 = V in > 1.5V
(+ 12 VDC @ 50mA supplied for powered sensors)

Frequency Range: Upper limit 30 KHz. Lower limit software selectable 10 Hz to .0625 Hz.

Power Supply

120 Vac \pm 10%, 50-60 Hz
24 Vdc (20-30 V)
15 watts maximum power.

Output

Relay Output: Two SPDT relays, 6A @ 28 Vdc or 240Vac, 170 W or 1800 VA. Selective relay logic: Energize or de-energize above or below setpoint. Auto-reset at setpoint with programmable frequency hysteresis 00.0% to 99.9% or with time delay hysteresis selectable 000 to 999 data acquisitions. Latching relay at setpoint with remote reset.

Response: 50 millisecond updates above 100 Hz. See manual for updates between 20 and 100 Hz, one cycle below 20 Hz.

Accuracy: \pm 0.05% for relay setpoints in operation over temperature range.

Environmental

Temperature: -10°C to 55°C operating
-40°C to 80°C storage

Vibration: Designed to meet MIL-810C, Method 514.2, Procedure VIII, Figure 514.2-6. Curve V (1.5 g's 10-200 Hz).

Shock: Designed to meet MIL-810C, Method 516.2, Procedure I, Figure 516.2-2 for ground equipment (30 g's half sine).

Enclosures Available: NEMA 1 STD, NEMA 4X and Explosion Proof.

Humidity: 90% relative and non-condensing.

Constant Storage: Retained in EARAM and may be altered 1000 or more times.

Electrical References: Circuit common is isolated from AC power, AC ground and case. DC power is referenced to circuit common. Passive inputs are balanced. Active sensor inputs are referenced to circuit common.

Electrical Connections

TB1	-1 K1 NC	} Relays shown de-energized. Contact rating: 6A max. at 28 Vdc or 6A max. at 240 Vac.
	-2 K1 COM	
	-3 K1 NO	
	-4 K2 NC	
	-5 K2 COM	
	-6 K2 NO	
	-13 AC Power	
	-14 AC Power	
	-15 Earth	

TB2	-1 + 24 Vdc In
	-2 DC Common
	-3 Calibrate (when tied to +12V)
	-4 DC Common
	-5 + 12Vdc Out (50mA max.)
	-6 Relay reset (when tied to + 12V)
	-7 Signal +
	-8 Signal -
	-9 Shield