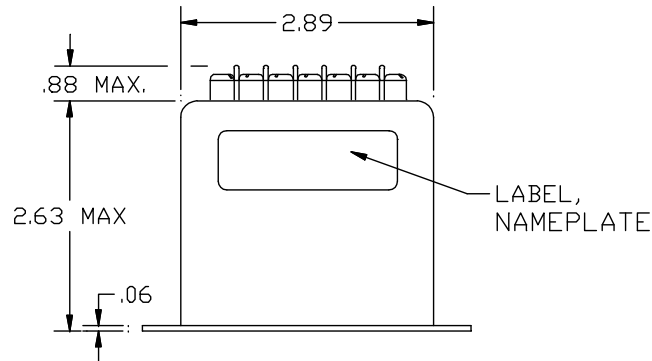
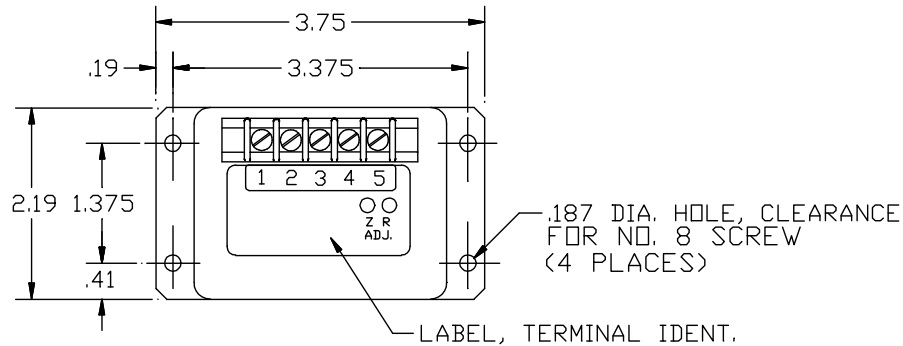


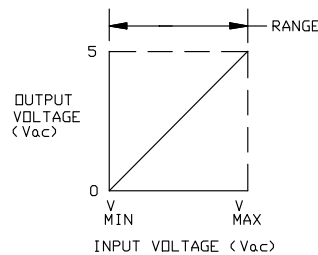
**AC VOLTAGE TRANSDUCER
SERIES 102M3**



TERMINAL IDENTIFICATION

1. A.C. INPUT HI
2. A.C. INPUT LO
3. CASE GROUND
4. OUTPUT (RTN)
5. OUTPUT (+)

CHARACTERISTIC CURVE



| PART NUMBER | INPUT VOLTAGE RANGE | |
|-------------|---------------------|--------|
| | V min. | V max. |
| 102M3-175 | 90 TO 175 | |
| 102M3-130 | 105 TO 130 | |
| 102M3-225 | 175 TO 225 | |

INPUT VOLTAGE

| | |
|------------------------|--|
| RANGE | See Table |
| FREQUENCY | 340 to 440Hz |
| BURDEN | 1 Va Typical |
| OVERVOLTAGE CAPABILITY | 200 Vac max. for 175, 130 ranges 300 Vac max. for 225 range |

OUTPUT SIGNAL

| | |
|-----------------------------------|-----------------------------------|
| VOLTAGE SIGNAL (V min. to V max.) | 0 to 5Vdc FS (Full Scale) |
| ACCURACY | ±0.5% FS (±25mV) |
| RESPONSE | Within 1 cycle of input frequency |
| RIPPLE | 50mV RMS max. |
| TEMPERATURE COEFFICIENT | ± 0.08% FS/°C max. |
| OUTPUT IMPEDANCE | 2.5 KOhms max. |

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

| | |
|-----------------------------|--|
| OPERATING TEMPERATURE RANGE | -40° to +85°C |
| STORAGE TEMPERATURE RANGE | -55° to +100°C |
| DIELECTRIC STRENGTH | 300 V RMS |
| INSULATION RESISTANCE | 100 MOhms @ 500Vdc |
| VIBRATION | Operating, meet or exceed Method 201A of MIL-STD-202F and Method 514.3 cat. 4 of MIL-STD-810C. |
| SHOCK | Operating: 50g, 11 m-sec half sine pulse (meet or exceed method 213B, Condition A of MIL-STD-202F) |
| MOISTURE RESISTANCE | Meet or exceed Method 106 of MIL-STD-202F and Method 507.2 proc. 1 of MIL-STD-810C. |
| OPERATING HUMIDITY | 0% to 95% RH |
| WEIGHT | 20 oz. max. |

| | | |
|------------|-------------------------------------|-------------------|
| AAC | Drawing Number 700-102M3 | Rev. E |
|------------|-------------------------------------|-------------------|