

## Model 401 & 401P Vibration Monitor

### Description:

The Model 401 Vibration Monitor provides continuous vibration monitoring for rotating equipment operating at speeds from 120 to 120,000 RPM. Vibration amplitude is displayed on a large analog meter in Velocity (in/sec) (peak) or Displacement (mils) (peak-to-peak).

The Model 401 uses one or two Model 158 Vibration Pickups to monitor one or two machine locations simultaneously. It automatically reads the higher vibration level of the two pickups. A vibration level that exceeds a preset limit from either pickup will trip a relay for either warning (Limit 1) or shutdown (Limit 2).

The Model 401P is the panel mount version.

### Features:

- Monitors Velocity and Displacement
- Continuous Display
- Monitors Two Pickups
  - (Levels of either pickup can be read)
- Two Setpoints - Limit 1 and Limit 2
- Adjustable Time Delay Prevents False Alarm
- 120 to 120,000 RPM
- .01 to 100 Mils or In/Sec Amplitude Range

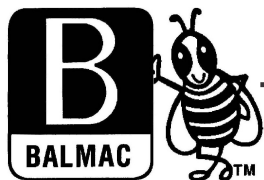
### Specifications:

PICKUP INPUTS: 2 Balmac Model 158 Vibration Transducers  
ACCURACY: 5% of Full Scale  
FREQUENCY RANGE: 120 to 120,000 RPM  
DISPLAY: Displacement (mils) (peak-to-peak)  
Velocity (in/sec) (peak)  
0 to 10 upper scale  
0 to 3 lower scale  
FULL SCALE: 0.1; 0.3; 1; 3; 10; 30; 100  
OUTPUT: 0-1 Vdc for 0 to F.S. reading  
RELAY ACTION: 2 Relays - Limit 1 and Limit 2  
Form C Contacts - 3 A 110 Vac  
Latch or Non-latch



Model 401 Vibration Monitor (left) and 401-P Panel Mount Vibration Monitor (right) shown with cable and pickups.

LIMIT SETTINGS: (2) Limits 1 & 2 (10 - 100% FS)  
TIME DELAY: (2) Limits 1 & 2 (1 to 10 sec)  
POWER: 115 V 60 Hz  
TEMPERATURE RANGE: 32° to 122°F (0° to 50°C)  
ENVIRONMENTAL: Relative humidity 0-95% non-condensing  
DIMENSIONS:  
401 9.5" H x 6.25" W x 6.375" D (24 x 16 x 16 cm)  
401P 8.375" H x 6" W x 7.75" D (21 x 15 x 20 cm)  
WEIGHT: 10 lb (4.5 kg)



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