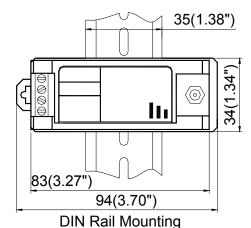
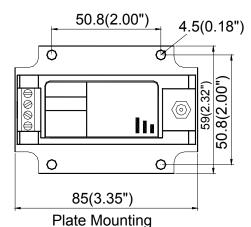
TR1101 Seismic Vibration Transmitter

The TR1101 is a cost-effective solution for monitoring case vibration on balance of plant machines. The TR1101 conditions the signal from an accelerometer or velocity transducer and provides a 4-20mA output in acceleration, velocity or displacement.

Features

- Measures machinery case vibration
- 4-20mA output in acceleration, velocity or displacement
- Buffered output up to 300 meters (1,000 feet)
- Compatible with other manufacturers' sensors (accelerometer or velocity sensor)
- Aluminum cast (copper free) case with epoxy potting for better environmental protection and reliability
- Compact size







Specifications

Electrical

Power Supply:

22-30VDC, 100mA (Non isolated)

Frequency Response (±3dB):

Acceleration: 2.0 - 10 KHz

Velocity: 2 - 10 KHz (velocity sensor) Velocity: 10 - 5 KHz (accelerometer) Displacement: 10 - 3 KHz (velocity sensor) Acceleration (low frequency): 1.0 - 100Hz

Velocity (low frequency): 1.0 - 100Hz (TM079VD) Displacement (low frequency): 1.0 - 100Hz (TM079VD)

Sensor Interface:

Sensitivity:

100mV/g nominal for accelerometer or

4.0mV/mm/sec (100mV/in/sec) nominal for

velocity sensor

40mV/mm/sec (1000mV/in/sec) nominal for velocity TM079VD or 4mV/um (100mV/mil) nominal for

displacement TM079VD

Current Source:

Nominal 4mA@24VDC

Connectors:

GAP/Buf: gap and buffered output

SIG: sensor signal COM: signal com 4-20mA: 4-20mA output

PVTVM

Proximity Transmitters and Seismic Vibration Transmitters

Electrical specifications continued

Buffered Output:

Original vibration, un-filtered

Impedance: 100Ω

Maximum cable distance: 300m (1,000ft)

Sensitivity: same as the sensor

Overall Vibration: 4-20mA, source

Driving load resistance up to 750Ω

System Self-test:

System OK: output 4-20mA System Not OK: output < 3.0mA

Physical

Height: 75mm (2.95") Weight: 1.0kg (2.0 lbs)

Environmental

Temperature:

Operation: -40° C to $+70^{\circ}$ C Storage: -40° C to $+100^{\circ}$ C

Humidity:

90% non-condensing

Order Information

*Factory Default

TR1101-AXX-EXX-GXX

AXX: Full Scale

A00*: 0 - 200um pk-pk

A01: 0 - 500um pk-pk

A02: 0 - 100um pk-pk

A03: 0 - 10mil pk-pk

A04: 0 - 25mil pk-pk

A05: 0 - 5.0mil pk-pk

A06: 0 - 50mm/s pk

A07: 0 - 100mm/s pk

A08: 0 - 20mm/s pk

A09: 0 - 2.0ips pk

A10: 0 - 4.0ips pk

A11: 0 - 1.0ips pk

AXX: Full Scale continued

A12: 0 - 5.0g pk

A13: 0 - 10g pk

A14: 0 - 5.0g pk (low frequency)

A15: 0 - 10g pk (low frequency)

A16: 0 - 50mm/s pk (low frequency, E01, E04)

A17: 0 - 100mm/s pk (low frequency, E01, E04)

A18: 0 - 500um pk-pk (low frequency, E04)

A19: 0 - 200um pk-pk (low frequency, E04)

A20: 0 - 2.0ips pk (low frequency, E04)

A21: 0 - 4.0ips pk (low frequency, E01, E04)

A22: 0 - 20mil pk-pk (low frequency, E04)

A23: 0 - 10mil pk-pk (low frequency, E04)

A24: 0 - 2.0ips (50 mm/s) rms

A25: 0 - 1.0ips (25 mm/s) rms

A26: 0 - 0.8ips (20 mm/s) rms

A27: 0 - 0.5ips (12.5 mm/s) rms

EXX: Sensor Type (not included)

E00*: Accelerometer TM0782A, TM0783A, TM0784A, TM0785A, TM0786A or any current mode

accelerometer with 100mV/g

E01: Velocity sensor TM0793V, TM0796V or any current

mode velocity sensor with 4mV/mm/sec

E02: 330500, 330525 velocity sensor

E03: 330750 velocity sensor

E04: TM079VD low frequency sensor

GXX: Mount

G00*: DIN rail mount G01: Plate mount

TR1101 Accessories

The TR1101 requires an external accelerometer or velocity sensor to work as a system.

TM0782A, TM0783A, TM0784A, TM0785A, TM0786A:

Accelerometer

TM0793V, TM0796V: Velocity sensor

TM079VD: Low frequency velocity and displacement sensor

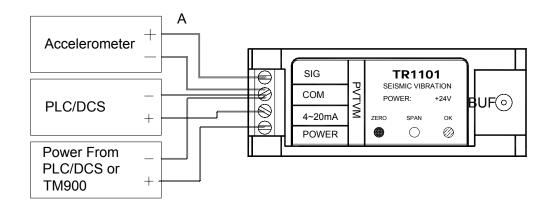
TM900A: Din Rail Mounted Power Supply

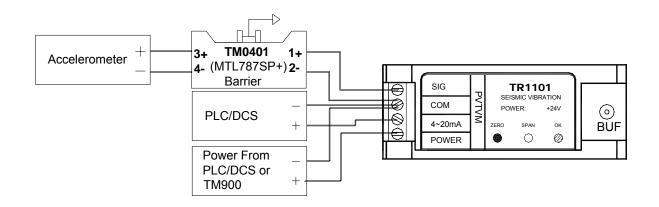
TM0200: 3-1/2 digit display unit



Proximity Transmitters and Seismic Vibration Transmitters

Field-Wiring Diagram





Note:

Other barriers available:

TM0402: (STAHL 9001/51-280-091-141) TM0407: (STAHL 9160/13-11-11)