TEXMATE Measurement Control Since 1976 Automation

www.texmate.com

First Industrial Plug n Play Transducers - TDX Series

- **First Industrial *Plug and Play* Wall Mount Transmitter/Transducer**
- **Triple Isolated:** Inputs to Outputs
  Inputs to Power
  Outputs to Power

INPUTS isolation OUTPUTS
isolation
POWER

- **Accepts most common input signals**
  - AC Volts, AC Amps RMS, and Line Frequency
- **5 Amp input has a built-in automatic current loop shorting connector to prevent open load when unplug from the base.**
- **Active, isolated 4-20mA RMS analog output.**
- **Auto sensing AC/DC power supply: 85-265 VAC / 95-370 VDC or optional 14-48 VAC / 10-72 VDC.**
- **Accuracy: 0.1% of full scale**
  Operating Temperature range: 0 to 50 °C
  Response time: <135msec

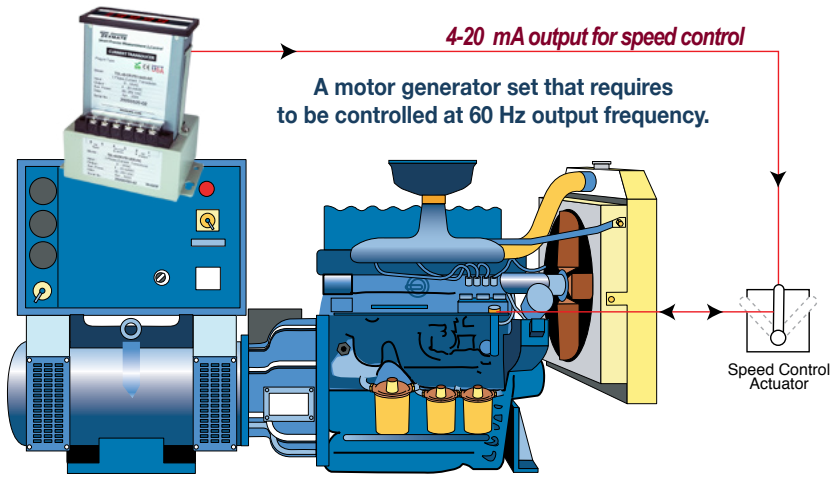
MADE IN THE USA CE RoHS COMPLIANT

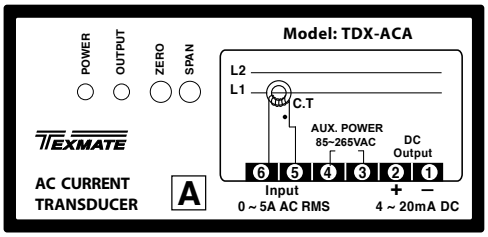
- **Plug and Play. Eliminate errors prone re-wiring.**
  Base station needs only one time wiring.
  Unplug transducers for easy batch routine calibration.

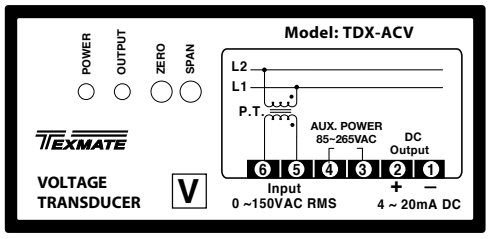
Application Examples:

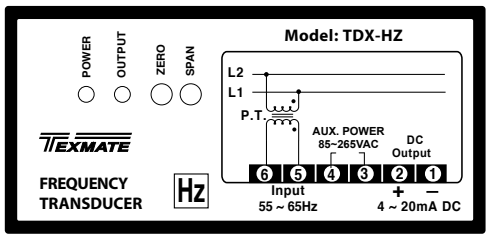
Motor Generator-Set Frequency Control

The analog output is scaled at 55 Hz for 4 mA and 65 Hz for 20 mA.
The speed control actuator is set to 12 mA to govern the speed at a generator output of 60.0 Hz.
If the frequency falls below 60.0 Hz, the motor speed increases.
If the frequency rises above 60.0 Hz, the motor speed decreases.









• For Product Details, Please Visit www.texmate.com

(d0104)

Quick & Easy Calibration Steps:

1)- Remove Power from the transducer.

2)- For batch calibration, unplug the transducer from the base unit that has been mounted in the equiptment.

3)- Plug the transducer into master calibration base station.

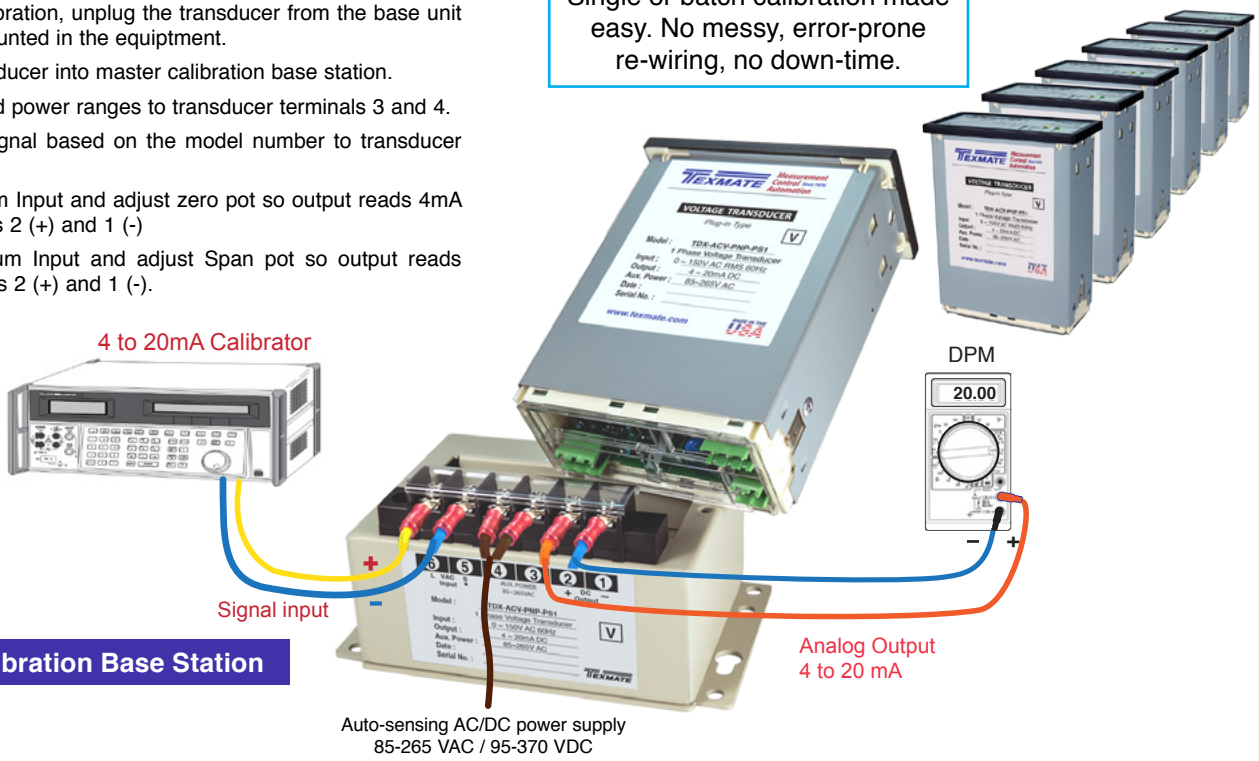
4)- Apply specified power ranges to transducer terminals 3 and 4.

5)- Apply input signal based on the model number to transducer terminals 6 and 5.

6)- Apply Minimum Input and adjust zero pot so output reads 4mA between terminals 2 (+) and 1 (-)

7)- Apply Maximum Input and adjust Span pot so output reads 20mA on terminals 2 (+) and 1 (-).

Single or batch calibration made easy. No messy, error-prone re-wiring, no down-time.



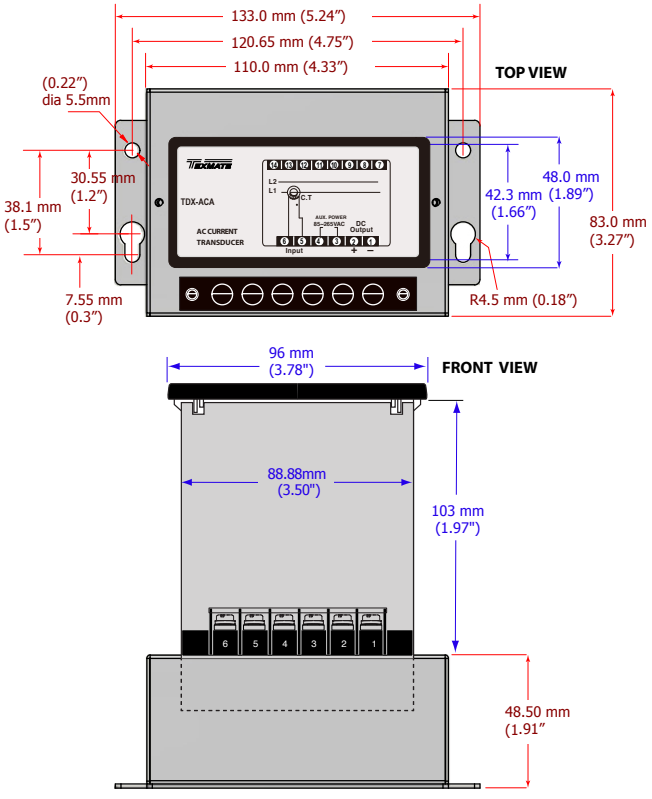
- **Three models to choose from:**

TDX-ACA- True RMS AC current measurement.
Input full scale: 0 to 5A AC RMS; Outout: 4 to 20mA DC

TDX-ACV- Input measurement range: 0 to 150VRMS; Output: 4 to 20mA

TDX-HZ- Input type: AC voltage. Measurement type: line frequency.
Input voltage range: 15 to 350VRMS; Full scale: 55Hz to 65Hz;
Output: 4 to 20mA DC

Transducer Dimensions



Application Examples:

AC Current Measurement and Transmitter

The log feed amperage is measured and re-transmitted via an isolated 4-20 mA analog output that can be sent to a motor controller or a PLC in order to control the motor's speed.