

IEM 422

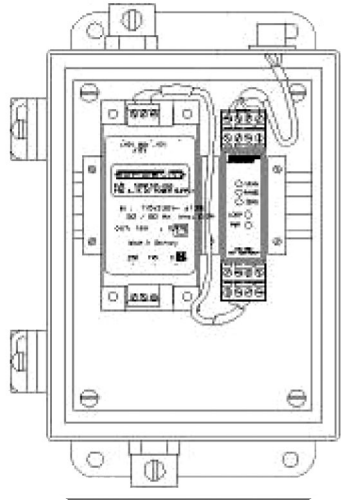
Two-Wire, 4 to 20 mA, Line
Powered LVDT Transmitter

DESCRIPTION

The IEM 422 is a line powered current transmitter designed for industrial process control applications. The unit consists of a power supply and LVDT conditioner module pre-set to supply a 4 to 20 mA output from a 115 or 230 volt AC supply. The IEM 422 supplies an AC sine wave excitation to the LVDT and then demodulates and amplifies the LVDT output. A full-wave synchronous demodulator minimizes quadrature output and maximizes noise rejection.

The IEM 422 is housed in a rugged NEMA 13 enclosure to protect it from dirt, dust, water and other contaminants commonly found in industrial

environments. Power input and signal output connections are made easy by using the conduit ports to make the appropriate connections. LVDT hookup is completed by mating to the sealed bayonet-type connector.



FEATURES

- ◆ 4-20 mA Loop Powered
- ◆ Compatible With All Schaevitz LVDTs
- ◆ NEMA 13 Rated Enclosure
- ◆ 115 / 230V AC Line Operation
- ◆ Adjustable Zero, Phase and Span Pots

APPLICATIONS

- ◆ Steam Turbine Throttle Valve Position
- ◆ Pulp Paper Industry
- ◆ Petrochemical Process Control
- ◆ Roller Gap Process Control

specifications

Power Requirements:	115 VAC / 230 VAC (47 to 63 Hz)
Transducer Excitation:	3VDC
Drive Current:	25mA max
LVDT Input Impedance:	50 Ohms (min) (at 1.0 V rms excitation)
Excitation Frequency:	2.5, 5.0 & 10.0 kHz.
Full Span Output Signal:	4 to 20 mA
Zero Point:	12 mA
Zero Adjustment Total Range:	+/- 30% full range
Frequency Response:	3dB @ 250 or 1000Hz
Non-linearity	less than .02% FS

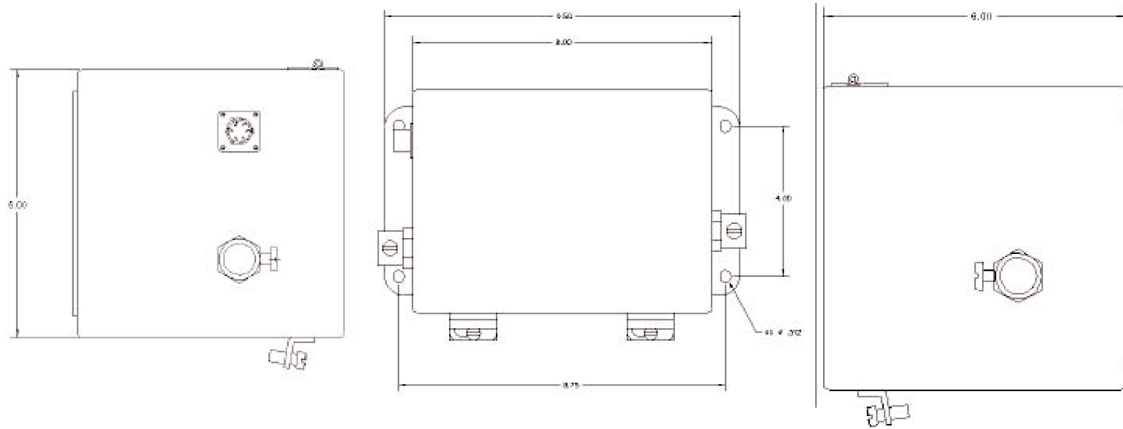
Temperature Coefficient : $\lt; \pm .02\% \text{ per deg. F. fso}$
($\lt; \pm .04\% \text{ per deg. C}$)

Operating Temp Range: -25 to +70° C

Dimensions:
(L x W x H) (inches) 3.86 x 2.48 x 1.38

IEM 422

dimensions



wiring diagram

