

SOFTLOG

LVDT SIGNAL CONDITIONER PIM-401

- The LVDT Signal Conditioner unit is a stand-alone unit.
- It is powered from +/- 15V DC (Other supply Voltage available on request).
- The LVDT transducer is connected to it via simple screw terminals (or screw terminals).
- The unit will output a voltage which is highly linear (0.05%) to the displacement (limited by LVDT sensor manufacturer's specifications).
- The unit has 5 digit 7-segment display
- Counting resolution: 1 micron
- has RS232 output
- has 0 to 2Vdc analog output
- Also available for 2, 4 or 8 probes

- Max. 32 probes can be stacked



The LVDT conditioner units designed around high accuracy ASIC that produces a low distortion Sine-wave excitation for driving the LVDT sensor. This ASIC also demodulates the signal from the LVDT sensor and converting it to a high accuracy, low noise signal, ready to interface with the highest accuracy A/D converter units. All sensitive components are thermally coupled on the silicon chip level, making the LVDT conditioner almost insensitive to temperature variations.

The LVDT signal conditioner unit is also insensitive to Excitation level and Excitation loading due to a State-of-the-art ratio metric measurement technology. The LVDT excitation is measured at real time and the output is compensated in real time for any changes in excitation voltage level.

The PIM-401 can operate with almost any type of LVDT sensor available when writing those lines. It's wide dynamic range (with wide range GAIN and DC Offset controls) make it suitable for a wide range of LVDT sensors sensitivity. The adjustment of these controls is very easy and can be done by the user using a small screwdriver.