



ABN 50 070 871 313

Innovative Control Systems, Design and Solutions

Vibro Stroke Transducer



This transducer is specifically designed to convert the raw sinusoidal signal from the “magnetic and coil” stroke transducers manufactured by ICAL into a 4 to 20mA signal that can be fed to a PLC input.

This particular model of ICAL Vibratory feeder used a fixed frequency of 20Hz and variable voltage to provide a variable stroke length. The PLC outputs a 4 to 20mA control signal to vary the stroke length and therefore the feed rate. Signals from the stroke feedback transducers varied in amplitude for millimetres of stroke and so each unit had to be calibrated against a visual stroke indicator on the side of the feeder body.

Typical signals of 0 to 5.5V RMS were converted to 4 to 20mA signals so that the PLC could provide the necessary control for multiple parallel feeders.

The unit is powered from a 240VAC supply and connects directly to the K,S,R & L terminals of the ICAL controller. An output signal of 4 to 20mA is fed to the PLC. A front digital display provides RMS voltage for 30 minutes when the display push button is pressed. The unit has a fault indicator for output loop problems.

Housing Dimensions 100mm w x 75mm h x 110mm d. Mounting – Rail or Screw.