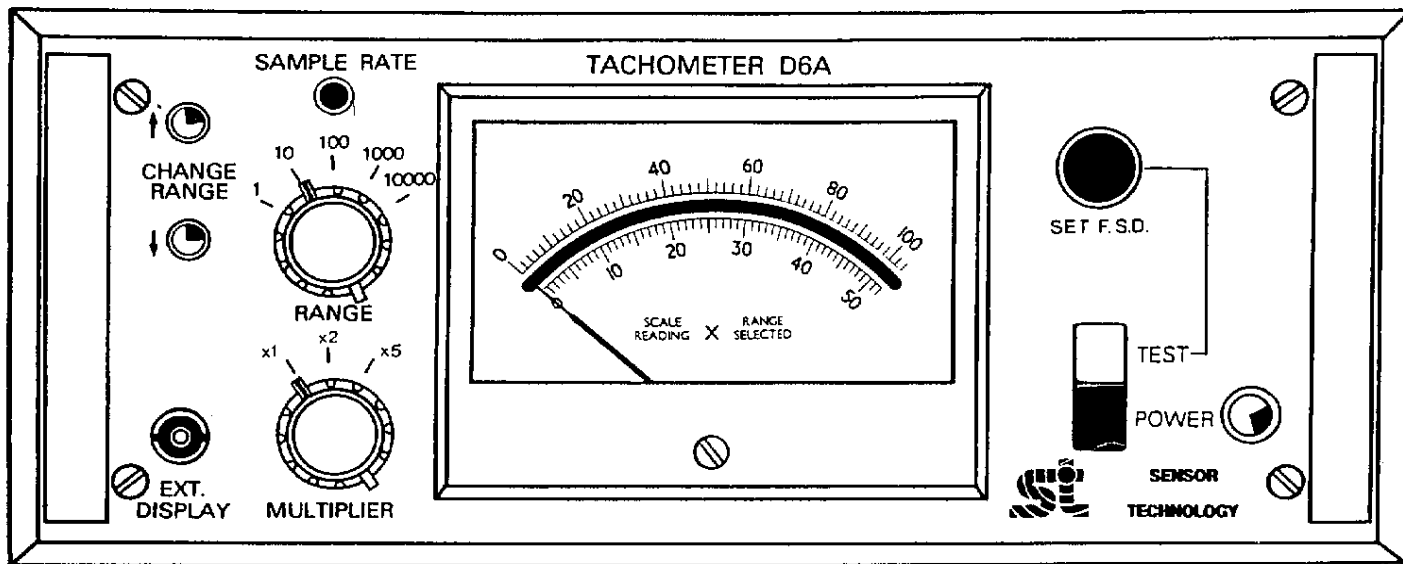


# D6A Analogue wide range R.P.M.indicator

# D6B Digital wide range R.P.M.indicator



Using the digital output from either a standard optical R.P.M. pick-off fitted to a DORT rotary torque transducer or other external R.P.M. sensor (see Features) advanced analogue circuitry enables the D6A/B to display an exceptionally wide range of shaft speeds.

On the front panel rotary switches select the R.P.M. range. Lights indicate the signal sample rate and when a range changes is

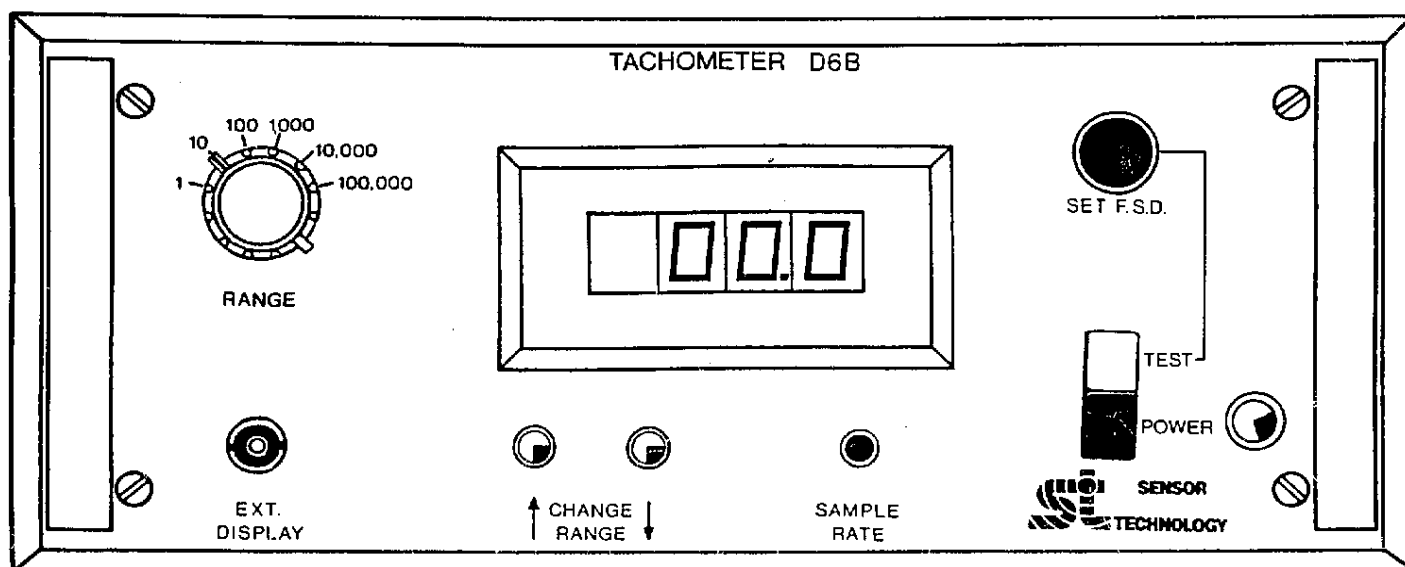
desirable. For interfacing with peripheral equipment such as oscilloscopes, recorders and plotters. BNC sockets are provided to give external outputs of 0 - +1 volt D.C. at full scale deflection on all speed ranges.

The D6A display is a 3.5" mirror scale analogue meter.

The D6B display is a .5in LED 3.5 digital panel meter.

### Rapid Response Time

Advanced digital/analogue circuitry enable a measurement to be made with inputs of only two transitions through zero, that is, every 12° of shaft rotation on a 60 cycle per revolution input. This enables accelerations and decelerations to be accurately measured. Complex speed modulations are easily analyzed whereas conventional pulse counting techniques would only give an average figure.



## Features

**Input.** Modified sine wave at 60 cycles per shaft revolution from:

- a) any of the range of standard optical rotary transducers.
- b) purpose made R.P.M. sensors for which switched signal and lamp supply facilities are provided on the rear panel of the instrument (5 pin DIN socket).

**External Display.** Socket giving 0 to +1 volt D.C. output for interfacing with chart records, oscilloscopes, digital voltmeters.

## Ranges.

D6A Basic: 1. 100. 1K. 10K.  
Multiplier: x1. x2. x5.  
D6B 1. 10. 100. 1K. 10K. 100K.  
Panel lamps indicate at 90% and 10% of each range when an upward or downward range change is desirable.

**Calibration.** Controls are provided to assist calibration checks.

**Accuracy.** Better than  $\pm 1\%$  of full scale deflection - all ranges.

**Power.** Derived from D3A/B Transducer Display/Power Supply Module.

## Case Dimensions.

Width 305 mm  
Height incl. feet 43 mm  
Depth 203 mm

Allow 50mm at rear for plug access.

## Panel Dimensions.

Width 279 mm  
Height 102 mm

Note: This unit is designed to fit standard modular cases with the other units in the 'D' range.