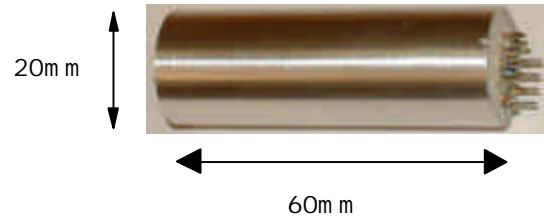




ASTECH ELECTRONICS LTD PRODUCT DATA

ROTARY TELEMETRY TRANSMITTER TX32D/2/IFM



The two input channel TX32D/2/IFM transmitter is for general purpose applications and is available for strain gauge and thermocouple applications. For the thermocouple version range and type is to customer requirement, reference junction compensation and linearization is incorporated in the transmitter firmware. Input scaling for the strain version is set by a single resistor.

Power supply may be by inductive or battery, a matching battery unit is available. In addition to the measurement data, the TX32D also transmits the power supply voltage and reference junction temperature to enable convenient monitoring at all times.

TX32D/2/IFM Specifications

Input:	1 channel full bridge strain gauge "Instrumentation Amp" input or ground referred chopper amplifier for thermocouple version. Series and common-mode input resistance 20 M ohms. Input bias current 1 nA. Strain input sensitivity set by single user accessible resistor. Range 0.1 mV to 500 mV full scale. Thermocouple range and type user specified
Bridge Excitation Supply:	5VDC \pm 1% over full operating temperature range. Voltage temperature coefficient typically 20 ppm / °C. Maximum bridge output current 40 mA. Short circuit protected.
Zero Shift with Temperature:	Typically 0.03 %/°C.
Resolution & Accuracy:	11 bits plus sign, 0.1% full range.
Operating Temperature Range:	-20 °C to +120°C. +140° C to special order.
Power Requirement:	6 - 12 VDC @ 9 mA plus bridge current.
Dimensions:	60mm x 20mm diameter
Weight:	Transmitter only 32 grams.
Construction:	Encapsulated in epoxy resin within machined aluminum housing