



Intelligent Transducer Readout



The Intelligent Transducer Readout is a portable battery powered field instrument designed to monitor strain gauge type transducers with readout directly in engineering units as preferred. Industry standard gold plated binding posts and connector allows compatibility with a wide range of gauges in all configurations. Microprocessor intelligence provides a wide range of features and the simplicity of design allows the non-technical user to operate the Intelligent Transducer Readout with a minimum amount of instruction. A security code prevents the unauthorized or inadvertent parameter changes with all set up data stored in non-volatile memory.

specifications

ITEM	DESCRIPTION
Excitation Voltage	Isolated 10 VDC
Current	90 mA
Display	5 digit, bright red
Accuracy	0.025% \pm least significant digit
Display Rate	2 updates per second
Response Time	750 ms
Operating Temperature	+32 to 122°F (0 to 50°C)
A/D Conversion	Voltage to frequency, auto zero, internal reference.
Autocalibrate	Once every 4 seconds measurement suspended during autocalibration.
Dimensions	20.3 cm x 17.8 cm x 21.6 cm high (8 in. x 7 in. x 8.5 in. high)
Weight	3 kg (7 lbs.)

optional items

4-20 mA version for current loop transducers.
115 VAC, 60 Hz power.
BCD output.
 $\frac{1}{2}$ and $\frac{1}{4}$ bridge completion network.
RS232C Data Port.
Baud rate selectable between 300-1200.
1 start bit, 7 data bits, no parity, no stop bits.

ordering info

ITEM	PART #
Intelligent Transducer Readout	ELRSTIR



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applications

Monitor ANY of the following:
Wheatstone full bridge based transducer.
Strain gauge piezometers.
Strain gauge load cells.
Total earth pressure cells.
Pressure transducers.
Flatjack cells.
CSIRO hollow inclusion stress cells.
CSIRO yoke gauges.
ANZSI stress cells.

features

Readout in ANY engineering unit as preferred.

Rechargeable battery powered operation.

Field rugged and reliable.

$\frac{1}{4}$ and $\frac{1}{2}$ bridges accommodated via optional completion resistors.

Monitors both unterminated and connector equipped gauges.

Automatic internal calibration function.

High intensity 5 digit, $\pm 32,000$ count LED display provides visibility under either bright or dim lighting.

Input signal averaging for applications with vibration induced errors.

Auto zero tracking to compensate for long-term zero drift.