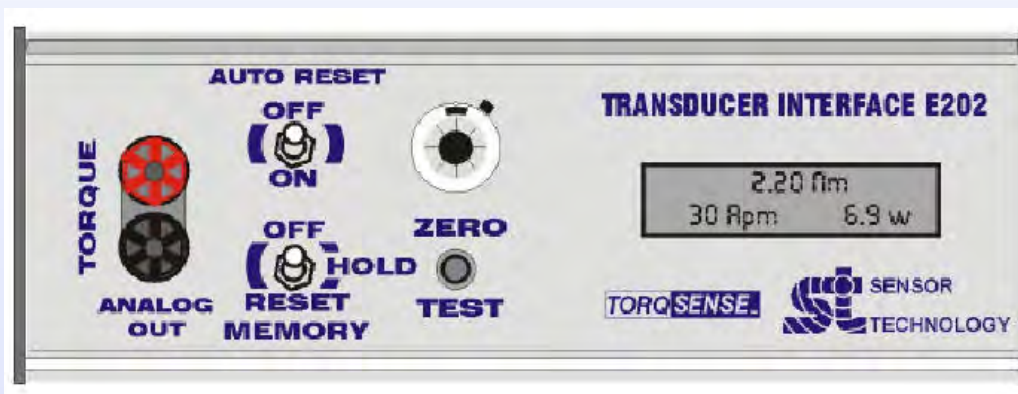


E202 Advanced Optical Torque Transducer Display Interface



The E202 digital system represents the latest generation of torque measuring instruments that operates in conjunction with any of the E-series optical rotary torque transducers (see data sheets TSE2038R). Utilising a powerful digital processor, the torque signal is digitised and displayed either locally or, with optional **TORQVIEW** software, on a remote PC. The system automatically detects the range and units of the transducer used, maintaining its overall calibration.

Embedded within each transducer is a non-volatile memory, storing calibration data and history, and when used with VIDS software indicates when re-calibration is due. Peak readings can be taken, and either manually or automatically reset. A built-in test facility confirms system integrity. Speed and computed power can also be displayed in addition to torque if the transducer has RPM output option.



Specifications

Electrical

Accuracy	0.1% of FSD
Resolution	0.05%
Display	LCD
Analog signal output	±1V (optional ±5V) Output should not be loaded less than 500V
Analog bandwidth	10kHz @ -3dB
Serial digital output (option)	RS232 4800 baud (standard)
Local display update rate	10 times per second
Power supply	80-260Vac, 40-400Hz, 10W, IEC connector 11-16Vdc, 0.5A (optional 22-32Vdc), 2.5mm jack

Mechanical

Overall size	220w x 290d x 100h (mm), aluminium enclosure Fitted with tilt feet
Weight	2.5kg (5lb 10oz) nominal

Environmental

Operating range	0-50°C (32-122°F)
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TORQVIEW PC Software

TORQVIEW virtual instrumentation display software is available as an optional extra to provide an interface to a standard PC (486 or better). Data sheet TSE2099R provides details.

E202 Advanced Optical Torque Transducer Display Interface



Available options

1) Power Supplies

- a. Power input 24v DC

2) Torque Analog Outputs

Analog Output $\pm 1v$ FSD – Standard

- a. Analog Output $\pm 5v$ FSD
- b. Analog Output $\pm 10v$ FSD
- c. Analog Output + 0.5v(fsd ccw) + 2.5v(zero) + 4.5v(fsd cw)
- d. 4-20 mA

3) Speed Analog Outputs

Specify RPM FSD Required

- a. RPM Analog +1v for FSD
- b. RPM Analog +5v for FSD
- c. RPM Analog +10v for FSD
- d. RPM Analog 4-20 mA for FSD

4) Power Analog Outputs

Specify Power FSD Required

- a. Power Analog +1v FSD
- b. Power Analog +5v FSD
- c. Power Analog +10v FSD
- d. Power Analog 4-20 mA FSD

5) Serial Outputs

- a. **Torqview®**
- b. RS232
- c. Optical Fibre Transmitter For RS232
- d. RS422 Output 4800 baud

6) Auxiliary Inputs

- a. 4-20mA
- b. AC RMS (50-400Hz)
- c. Dual Analog inputs $\pm 1v$
- d. Dual Analog inputs $\pm 5v$
- e. Dual Analog inputs $\pm 10v$

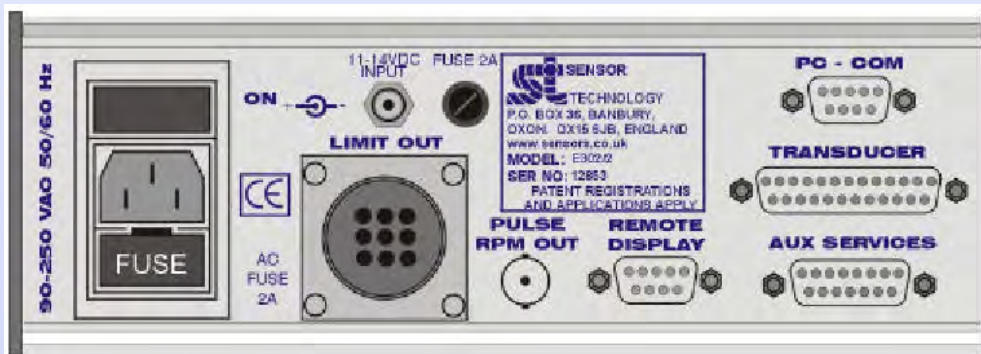
7) External Limit Outputs

- a. Limit output (relay)
- b. Limit output (opto)
- c. Limit output TTL/HC +5v positive logic

8) Extended Cable Driver

- a. Over 40 metres

For technical Information on options see TSE2278R



Product complies with EMC Regulation BS EN 55011

Warranty/Support policy

All Sensor Technology products are warranted against manufacturing defects/failure for 2 years from date of purchase, subject to fair wear and tear. This warranty is extended indefinitely if the equipment is returned to Sensor Technology or its agents for annual re-calibration, when any updates if required will be carried out free of charge.

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