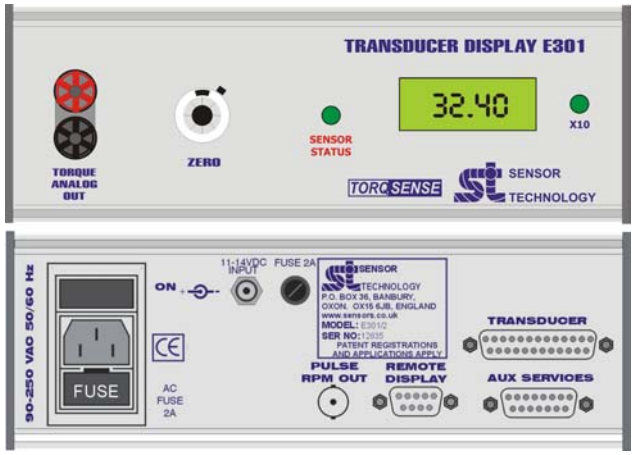
TORQSENSE Transducer Display Interface [E301/2]

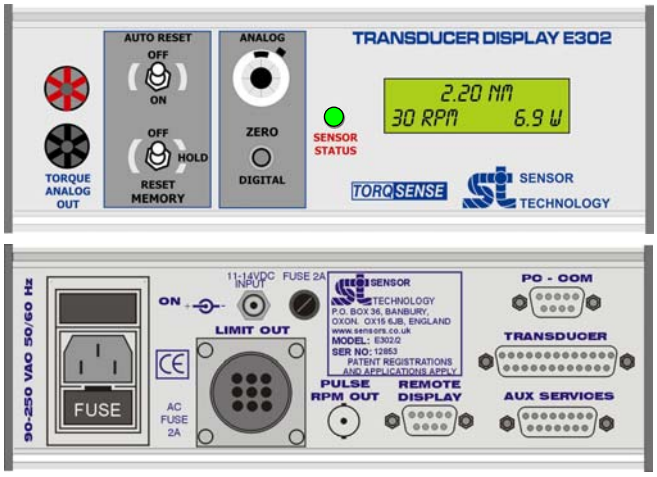
TSE2103R
Rev 6

The E300 Range of Transducer Display Interfaces are compatible with any of the TorqSense E300 RWT1 Transducers.

Common Features

- Automatically detects the full-scale range of any E300 RWT1 transducer.
- The display is automatically programmed to read the full scale of the transducer.
- Continuous self-auditing (sensor status is indicated on a front panel LED or remotely available).
- ±5v analog output for Torque FSD.
- 90-250V ac operation or 12 v dc





A typical E-302 Transducer Display unit. Front panel varies depending on model. See over page for sizes.

Additional Features for E302

- Operates independently or under control from remote PC.
- Operates with TorqView 2 to give
  - Advanced display modes (see TorqView 2 data sheet).
- 2 external analog input channels.
- Peak readings can be displayed and reset manually or automatically.
- Speed and power displayed (transducers require Optical RPM pickoff to be fitted).
- Options menu to allow user to:
  - Set torque limits.
  - Average torque & speed readings.
  - Adjust speed output full scale setting.
  - Set instrument display to feature other options (e.g. analogue inputs).
  - Fast record facility.

Display Interface Technical Data and Option Sheet

		E301	E302	Option	
Display Interface Accuracy	±0.1% Digital readout		●		
	±0.25% Analog out	●	●		
Resolution	0.1% Digital readout	●	●		
	0.05% Analog out	●	●		
Display	LCD (max 1999) with x10 LED indicator	●			
	LCD 16 x 2		●		
Analog Bandwidth	5KHz @ -3dB	●	●		
	10KHz @-3dB				
	50KHz @-3dB				
Local display update rate	10 times/sec		●		
Overall Size (mm)	220w x 290d x 100h (Aluminium enclosure)	●	●		
Fitted Tilt Feet		●	●		
Weight (nominal)	2.5Kg (5lb 10 oz)	●	●		
Temperature Range	-10ºC - 50ºC	●	●		
Power Supply	90-250v AC, 50-400Hz, 20W, IEC connector. 11-14 v DC 1 A 2.1mm jack reverse polarity protected	●	●	1	-
	Power Input - 24v	○	○		a
Torque Analog Output	Analog Output ±5v FSD	●	●	2	-
	Analog Output ±1v FSD	○	○		a
	Analog Output ±10v FSD	○	○		b
	Analog Output +0.5v (fsd ccw) +2.5v(zero) +4.5(fsd cw)	○	○		c
	Analog Output 4-20 mA	○	○		d
Speed Analog Output (Specify RPM FSD required) (Speed pickoff on Transducer reqd)	RPM Analog +1v for FSD		○	3	a
	RPM Analog +5v for FSD		○		b
	RPM Analog + 10v for FSD		○		c
	RPM Analog 4-20 mA for FSD		○		d
Power Analog Output (Specify Power FSD required) (Speed pickoff on Transducer reqd)	Power Analog +1v for FSD		○	4	a
	Power Analog +5v for FSD		○		b
	Power Analog + 10v for FSD		○		c
	Power Analog 4-20 mA for FSD		○		d
Serial Output	TORQVIEW 2		○	5	a
	RS232		○		b
	Optical Fibre Transmitter for RS232		○		c
	RS 422 Output 4800 baud		○		d
	USB Adaptor		○		e
Auxiliary Inputs	4-20mA		○	6	a
	AC RMS (50-400Hz)		○		b
	Dual Analog inputs + 1v		○		c
	Dual Analog inputs +5v		○		d
	Dual Analog inputs +10v		○		e
External Limit Outputs	Limit output (relay)		○	7	a
	Limit output (opto)		○		b
	Limit output TTL/HC +5v positive logic		○		c
Extended Cable Driver	Over 10 Metres		○	8	a
Front Panel (Lanuage)	English	●	●	9	-
	German	○	○		a
	French		○		b
	Italian		○		c

● – Standard ○ – Option available

Patents pending. US Patents: US5585571, US6237417, US6467351.

Sensor Technology Ltd reserves the right to change specification and dimensions without notice.
See cover page or contact company for warranty and EMC compliance

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