

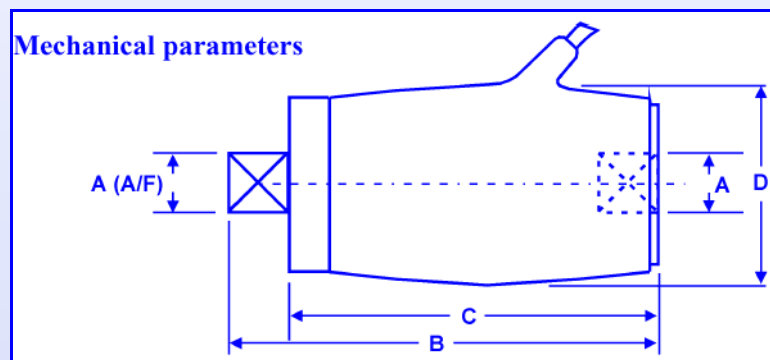
# E-series Strain Gauge In-line Torque Transducers

The E-series Strain Gauge In-line Transducer takes advantage of TorqView®, our new virtual instrumentation display system technology.

Each transducer in the family contains an embedded non-volatile memory chip storing data on parameters, calibration etc., which are passed to the interface/readout module (E101 or E102) and then as an option to a host PC running under Windows software.

This provides the user with a very cost-effective solution to measuring, recording and displaying data from a wide variety of applications.

<b>Cable length:</b>	2 metres standard.
<b>Power supply:</b>	From E101/2 module ( $\pm 5V$ ).
<b>Outputs:</b>	See data sheets for E101 and E102.
<b>Accuracy:</b>	$\pm 0.5\%$ standard; $\pm 0.1\%$ to order.
<b>Linearity:</b>	$\pm 0.25\%$ standard; $\pm 0.1\%$ to order.
<b>Safe mechanical overload:</b>	200% of rating.
<b>Temperature range:</b>	0-50 °C standard. Others to order.
<b>Temperature coefficient:</b>	Less than 0.05% per °C. Others to order.
<b>Hysteresis:</b>	Better than 0.1%



The construction is ruggedised for industrial applications, and a synthetic rubber boot protects the transducer from abnormal shocks. In-line cable connector fitted for safety.

E100SIT/	Torque range			A (square) across flat	B	C	D
	S.I.	F.P.S.	M.K.S.				
1	0-1 N.m	0-10 lbf.in	0-10 kgf.cm	0.250 in.	64 mm	56 mm	32 mm
2	0-2 N.m	0-20 lbf.in	0-20 kgf.cm	0.250 in.	64 mm	56 mm	32 mm
3	0-5 N.m	0-50 lbf.in	0-50 kgf.cm	0.250 in.	64 mm	56 mm	32 mm
4	0-10 N.m	0-100 lbf.in	0-100 kgf.cm	0.375 in.	67 mm	56 mm	32 mm
5	0-20 N.m	0-200 lbf.in	0-200 kgf.cm	0.375 in.	67 mm	56 mm	32 mm
6	0-50 N.m	0-500 lbf.in	0-500 kgf.cm	0.500 in.	70 mm	56 mm	32 mm
7	0-100 N.m	0-100 lbf.ft	0-10 kgf.m	0.500 in.	106 mm	90 mm	52 mm
8	0-200 N.m	0-200 lbf.ft	0-20 kgf.m	0.750 in.	112 mm	90 mm	52 mm
9	0-500 N.m	0-500 lbf.ft	0-50 kgf.m	0.750 in.	112 mm	90 mm	52 mm
10	0-1000 N.m	0-1000 lbf.ft	0-100 kgf.m	1.000 in.	108 mm	76 mm	89 mm
11	0-2000 N.m	0-2000 lbf.ft	0-200 kgf.m	1.500 in.	138 mm	93 mm	102mm
12	0-5000 N.m	0-5000 lbf.in	0-500 kgf.m	2.000 in.	138 mm	93 mm	102mm



Product complies with EMC Regulation BS EN 55011 (1991)