

T12-USB

Hex Drive Rotary Torque Transducer

- Capacities from 0.1 to 5,000Nm
- Contact-less design, no slip rings
- USB Output, not external power
- 2,500 measurements per second
- Suitable for mobile operation



The T12-USB is a square drive rotary transducer supplied complete with Configuration and Evaluation software

SPECIFICATIONS

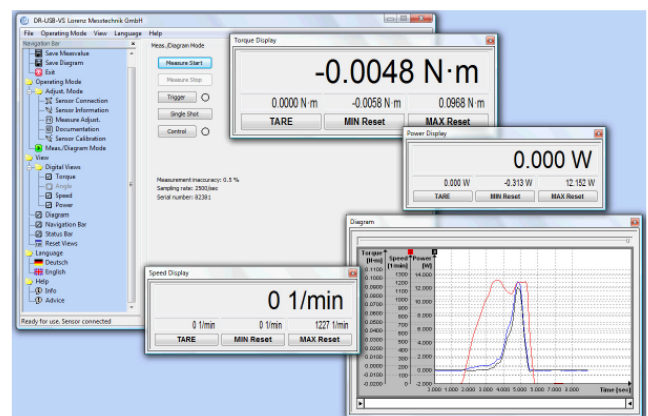
ACCURACY – (MAX ERROR)	Standard	Enhanced
Combined Error–% FS	±0.25	±0.1
Nonrepeatability–%	±0.05	±0.02
TEMPERATURE		
Effect on Zero–% RO/°C	±0.05	±0.02
Effect on Output–%/°C	±0.02	±0.01
Rated Range–°C	+5 to +45	+5 to +45
Operating Range–°C	0 to +60	0 to +60
ELECTRICAL		
Output–VDC	±5	±5
Bandwidth, Hz	1 kHz-3dB	3 kHz-3dB
Calibration Signal–% RO	100	100
Supply Voltage–VDC	12 to 28	12 to 28
Supply Current–mA	60	60
Electrical Connection	8 or 12-pin	8 or 12-pin
MECHANICAL		
Safe Overload–% RO	200	200
Cyclic Load Rating–% RO	±70 peak	±70 peak
Max Speed - rpm	See table	See table
Housing	Aluminum	Aluminum

**T12 SQUARE DRIVE TORQUE TRANSDUCER
PERFORMANCE PARAMETERS**

CAPACITY (Nm)	SQUARE (INCH)	MAX RPM	SPRINGRATE (Nm/rad)	MOMENT OF INERTIA, J (Kgx ^m ²)		MAX. THRUST LOAD (N)
				Drive Side	Test Side	
0.1	0.25	3,000	1.0	2.1x10 ⁻⁶	2.3x10 ⁻⁷	15
0.2	0.25	3,000	1.0	2.1x10 ⁻⁶	2.3x10 ⁻⁷	20
0.5	0.25	3,000	5.9	2.1x10 ⁻⁶	2.3x10 ⁻⁷	30
1	0.25	4,000	5.9	2.1x10 ⁻⁶	2.3x10 ⁻⁷	40
2	0.25	4,000	3.0x10 ³	2.1x10 ⁻⁶	2.4x10 ⁻⁷	50
5	0.25	4,000	3.5x10 ³	2.1x10 ⁻⁶	2.4x10 ⁻⁷	50
10	0.25	4,000	7.3x10 ³	2.1x10 ⁻⁶	2.7x10 ⁻⁷	50
15	0.25	4,000	7.3x10 ³	2.1x10 ⁻⁶	2.7x10 ⁻⁷	100
20	0.25	4,000	7.3x10 ³	2.1x10 ⁻⁶	2.7x10 ⁻⁷	100
35	.375	3,000	8.6x10 ³	9.8x10 ⁻⁶	1.1x10 ⁻⁵	1,300
50	.375	3,000	1.0x10 ⁴	9.9x10 ⁻⁶	1.1x10 ⁻⁵	1,600
63	.375	3,000	1.1x10 ⁴	1.0x10 ⁻⁵	1.1x10 ⁻⁵	1,900
100	0.50	2,500	1.2x10 ⁴	1.6x10 ⁻⁵	1.1x10 ⁻⁵	2,600
160	0.50	2,500	1.5x10 ⁴	1.6x10 ⁻⁵	1.2x10 ⁻⁵	3,200
200	0.50	2,500	1.5x10 ⁴	1.6x10 ⁻⁵	1.2x10 ⁻⁵	3,200
300	0.75	2,500	8.8x10 ⁴	9.8x10 ⁻⁵	7.7x10 ⁻⁵	5,500
500	0.75	2,500	8.8x10 ⁴	9.8x10 ⁻⁵	7.7x10 ⁻⁵	7,500
1,000	1.00	1,500	1.3x10 ⁵	2.1x10 ⁻⁴	1.1x10 ⁻⁴	10,000
2,000	1.50	1,000	2.1x10 ⁵	3.5x10 ⁻³	1.8x10 ⁻³	18,000
3,000	1.50	1,000	2.3x10 ⁵	3.5x10 ⁻³	1.8x10 ⁻³	22,500
5,000	1.50	1,000	2.7x10 ⁵	3.5x10 ⁻³	1.8x10 ⁻³	32,000

Configuration and Evaluation Software

- Convenient configuration and evaluation software
- Graphic presentation of torque/ speed/ power or torque/ rotation angle
- Automatic y-axis scaling
- Simultaneous storage of up to three physical values
- Automatic storage function of measured values in CSV or BMP files



Interface Force Measurements Ltd,

Unit 19 Wellington Business Park,
Dukes Ride, Crowthorne,
Berkshire RG45 6LS. U.K.

interface

ADVANCED FORCE MEASUREMENT

Description

Configuration and evaluation software for easy analysis and graphic presentation on a PC or laptop

The software allows direct read of measured data into text, CSV or BMP file formats through your PC's USB port. This enables further analysis with commercially available spread sheet programs at any time

System Requirements; Win2000 Win XP, Win 7, Win 10 minimum single core 2.0GHz processor or dual core 1.8GHz

Phone +44 (0)1344 776666
Fax +44 (0)1344 774765
E-mail info@interface.uk.com
Web www.interface.uk.com

interface
www.interface.uk.com