

2816 AXIAL TORSION LOAD CELL (US & METRIC)

FEATURES & BENEFITS

- Measures load and torque simultaneously
- Extraneous load resistance
- Minimal crosstalk
- Fatigue rated

SPECIFICATIONS

		Axial Bridge A	Axial Bridge B
ACCURACY – (MAX ERROR)			
Nonlinearity – %FS		±0.05	±0.07
Hysteresis – %FS		±0.05	±0.05
Nonrepeatability – %RO		±0.02	±0.05
Creep, in 20 min – %		±0.025	±0.025
TEMPERATURE			
Effect on Zero – %RO MAX	°F	±0.0015	±0.0015
	°C	±0.0027	±0.0027
Effect on Output – % MAX	°F	±0.0008	±0.0008
	°C	±0.0015	±0.0015
Compensated Range	°F	+15 to +115	+15 to +115
	°C	-10 to +45	-10 to +45
Operating Range	°F	-65 to +200	-65 to +200
	°C	-55 to +90	-55 to +90
ELECTRICAL			
Rated Output – mV/V (T & C)		+2.0 ±0.3 / -2.0 ±0.3	
Zero Balance – %RO MAX		±2.0	±2.0
Input Resistance – Ohms		350 ±3.5	700 ±7
Output Resistance – Ohms		350 ±3.5	700 ±7
Excitation Voltage – VDC MAX		20	20
MECHANICAL			
Calibration		T & C	CW & CCW
Safe Overload – %CAP MAX		±200	±200
Ultimate Overload – %CAP MAX		±400	±400
Material		Alloy steel	

STANDARD CONFIGURATION



MODEL 2816DYM-10K (Shown)

OPTIONS

- Base (recommended)
- Connector protection
- Standardized output
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration
- Multiple bridge
- Special threads
- Dual diaphragm
- Special temperature range
- Cable length
- Add connector to cable

CONNECTOR OPTIONS

- Integral cable 10 ft (3 m)
- PT02E-10-6P bayonet connector
- PC04E-10-6P screw-type connector

ACCESSORIES

- Mating connector
- Instrumentation
- Loading hardware

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DIMENSIONS

See Drawing	CAPACITY	
	U.S. (lbf/lbf-in)	Metric (N/Nm)
	3.3K/2K, 5K/3K 10K/6K, 15K/7.5K	16K/220, 25K/340 45K/680, 63K/900
	in	mm
1	1.75	44.4
2	5.120	130.18
3	6.06	153.9
4	2.41	61.2
5	3.55	90.2
6	0.41	10.3
7	15°	
8	Ø0.41 THRU, √ 90°, Ø0.46	Ø10.5 THRU, √ 90°, Ø11.7
9	Ø0.31 THRU, □ Ø0.3155–3166, ‡ 0.39 – This side only	Ø7.8 THRU, □ Ø8.014–8.042, ‡ 10.0 – This side only
10	1.772	45.00
11	1.62	41.3
12	0.015	0.38
13	Ø5.86	Ø148.8
14	Ø4.30	Ø109.2
15	Ø4.01	Ø101.9

