



Short description Force Transducer FFT01-P

The TEQFORT GmbH develop, produce and marketed on strain gauge based sensors for force and torque measuring as well as the required electronic. The name TEQFORT represent for - Test Equipment Force Torque - and for quality at high and highest precision.

The force transducer of the model range FFT01-P is the premium version of the FFT01 series and well qualified for all tension and compression application, in industrial area just like for the high requirements in the proofing and test technic. Especially measuring tasks, where dynamic use is essential, are its strong points.



- Nominal load 1,25 kN 1000 kN
- For static and dynamic application
- Accuracy from 0,03 0,06 %
- Fatigue resistant ± 100 %
- Easy mounting due to outer flange
- 6-wire technology

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By means of different adapters the model FFT01-P can be flexibly used. The below Illustration shows a construction with adapter plate and threaded rod. On the thread side, however, clamping tools of a testing machine can be screwed directly also. Since we also make special designs within our sensor model series, the model FFT01-P now also offers **63 kN**, **630 kN** and **750 kN** versions, contact us.



Options

Second measuring circuit for redundancy

Measuring circuit for torque Mz

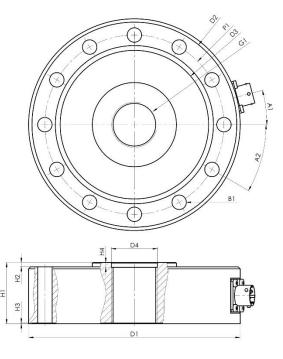
Fixed wire connection

Additional protection of the connector

Attachment parts for assembling

Technical Data

Nominal Load	±F _{nom}	kN	1,25 / 2,5 / 5,0	12,5 / 25	50 / 125	250	500	1000
Accuracy		%	± 0,03	± 0,04			± 0,06	
Linearity error	d _{lin}	%	± 0,03 ± 0,04			± 0,06		
Hysteresis	h	%	± 0,03 ± 0,03 ± 0,05			± 0,06		
Reproducibility		%	± 0,025					
Rel. zero-point return	fo	%	0,01					
Creep		%	± 0,025					
Eccentricity effect		%/mm	< 0,01					
Bending moment effect		%/Nm	< 0,01					
Tension/compression rated output variation	d ZD	%	0,1					
Nominal temp. range		°C	+10 up to + 60					
Temperature effect on characteristic value	TKc	%/10K	0,015					
Temperature effect on zero signal	TK ₀	%/10K	0,015					
Rated characteristic value	C_{nom}	mV/V	1 2					
Input resistance	R_e	Ω	per bridge ca. 1000					
Range of supply voltage	$B_{U,G}$	٧	5 - 15					
Protection class (EN 60529)		IP	67					
Nominal load	± F _{nom}	kN	1,25 / 2,5 / 5,0	12,5 / 25	50 / 125	250	500	1000
Height	Н1	mm	34,9.0	,1	44,5 _{-0,1}	63,5 _{-0,1}	88 , 9 _{-0,1}	114,3
Height	H2	mm	3,2		3,1	6,3	12,7	6,3
Height	Н3	mm	0,5				0,8	
Height	H4	mm	3,4		3,5	3		3,5
Diameter	D1	mm	104,8-0,1		153 , 9 _{-0,1}	203,2.0,1	279 , 0 _{-0,1}	
Diameter	D2	mm	101,6+0,1		149,0+0,1	198,1,0,1	269,2+0,1	289,6+0,1
Diameter	D3	mm	74,7 _{+0,1}		108,0,0	138,9+0,1	172,1+0,1	195+0,1
Diameter	D4	mm	16,5 _{H8}		33,5 _{H8}	43,0 _{H8}	73,	
Pitch circle diameter	P1	mm	88,9 _{±0,1}		130,3 _{±0,1}	165,1 _{±0,1}	229,0 _{±0,1}	
Bore	B1	mm	7,1		10,4	13,5	16,8	22
Thread	G1	mm	M16x2-4H					2-4H
Angle	A1		22,5°		15°	11,25°		9°
Angle	A2		8x45°		12x30°	16x22,5°		20 x 18°
Weight		kg	0,5	1,3	5	11	28	46



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