

TCF

Fixed Type Torque Sensor

Voltage Output Fixed

RoHS

• Requires CD5 to display torque reading



CD5

*Display is sold separately.



TCF20N

S.I. Model	Torque Range [N-m]	Metric Model	Torque Range [kgf-cm]	American Model	Torque Range [lbf-in/lbf-ft]	Inlet Drive [mm]	Dimensions		Weight [kg]
	Min.-Max.		Min.-Max.		Min.-Max.		Height [mm]	Diameter [mm]	
TCF02N	0.02-0.2	TCF1.8	0.18-1.8	TCF1.8I	lbf-in	6.35	56	45	0.45
TCF04N	0.04-0.4				0.18-1.8				
TCF1N	0.1-1	TCF18	1.8-18	TCF18I	lbf-ft	9.5	66	70	0.6
TCF2N	0.2-2				1.8-18				
TCF4N	0.4-4	TCF180	18-180	TCF180I	lbf-in	12.7	100	105	2.5
TCF10N	1-10				18-180				
TCF20N	2-20	TCF1800	180-1800	TCF150F	lbf-ft	19.0	135	140	6
TCF40N	4-40				180-1800				
TCF100N	10-100	TCF18000	1800-18000	TCF1500F	lbf-in	25.4	180	178	12
TCF200N	20-200				1800-18000				
TCF400N	40-400								
TCF1000N	100-1000								
TCF2000N	200-2000								

Note 1. TCL, calibration kit is optional.
2. Display, CD5, is sold separately.

Standard Accessories Connecting Cable

TCF Optional Accessories

TP, Test Piece: Torque measurement for power torque tools



TP18N+TCF20N

Model	Torque Range			Applicable TCF Model	Inlet		Dimensions		Weight [kg]
	S.I. [N-m]	Metric [kgf-cm]	American [lbf-in/lbf-ft]		Width Across Flats [mm]	Nominal Size of Screw	Diameter [mm]	Height [mm]	
	Min.-Max.	Min.-Max.	Min.-Max.						
TP2.5N	0.25-2.5	2.5-25	2-22	TCF02N-TCF4N	8	M4	18	58	0.08
TP18N	1.8-18	18-180	16-160	TCF10N, TCF20N	13	M6	35	83.5	0.27
TP180N	18-180	180-1800	30-130	TCF40N-TCF200N	24		65	148	1.9
TP1800N	180-1800	1800-18000	130-1300	TCF400N-TCF2000N	50		140	297.5	16.8

Note 1. Adapter 4H-3 (#273) is necessary for TCF40N.
2. Adapter 8P-6 (#295) is necessary for TCF400N.



DTF5-2+TCF20N

DTF, Drill Chuck: Torque measurement for axial work pieces

Model	Applicable TCF Models	Chuck Size [mm]	Square Drive [mm]	Dimensions	
				Diameter [mm]	Height [mm]
DTF5-3	TCF02N-TCF4N	Max. φ5	6.35	33	65
DTF5-2	TCF10N-TCF40N	Max. φ5	9.5		61



TTF11+ATF18+TCF20N

TTF/ATF, Table and fixture: Ideal for testing torque on bottle caps

Model	Applicable TCF	Chuck Size [mm]	Table Dia. [mm]
TTF	ATF		
TTF7	ATF18-2	φ10-70	φ70
TTF11	ATF18	φ14-110	φ110
TTF19	ATF18-2	φ18-190	φ180
	ATF18		

Note ATF attachment is required to fix TTF table.

TCR

Rotary Type Torque Sensor

Voltage Output Rotary

RoHS

• Captures directly applied torque
• Requires CD5 to display torque reading



CD5

*Display is sold separately.



TCR18N

S.I. Model	Torque Range [N-m]	Metric Model	Torque Range [kgf-cm]	American Model	Torque Range [lbf-in/lbf-ft]	Allowable Rotation [r.p.m]	Square Drive [mm]	Height [mm]	Width [mm]	Weight [kg]
	Min.-Max.		Min.-Max.		Min.-Max.					
TCR18N	1.8-18	TCR180	18-180	TCR180-A	lbf.in	2000	9.5	91	76	0.9
TCR180N	18-180	TCR1800	180-1800	TCR1800-A	lbf.ft					
TCR700N	70-700	TCR7000	700-7000	TCR7000-A	13-130	1000	12.7	104	83	1.3
TCR1800N	180-1800	TCR18000	1800-18000	TCR18000-A	50-500					
					130-1300		19.0	118.5	95	2.0
							25.4	138.5	110	3.6

Note 1. TCL, calibration kit is optional.
2. Display, CD5, is sold separately.

Standard Accessories Connecting Cable

◆ Calibration Kit for TCF/TCR



* Sold separately. Refer to page 63.

