Hios torque meters are world standard instruments.

Digital Torque Meter Series

- Measurement data can be transferred to a computer. (This requires an input tool.)
- Up to 100 data measurements can be stores in memory at a time. (HP series and HDP series)
- Can be checks maximum, minimum and average toque measurement. (HP series and HDP series)
- Measurement can be easily taken in either clockwise or counterclockwise direction.
- Data can be output either numerically or as waveforms.
- Light, compact and operating on a rechargeable battery, it is convenient for carrying around any job site.

HP

HP-10
HP-100

RoHS CE

Use for making torque settings on electric drivers, checking torque of torque wrenches or measuring torque of fasteners, etc.

Model		HP-10	HP-100
Peak measuring range	N • m	0.015 - 1.000	0.15 - 10.00
	lbf • in	0.15 - 9.00	1.5 - 90.0
	(kgf • cm)	(0.15 - 10.00)	(1.5 - 100.0)
Accuracy		Up to ± 0.5% (F.S.)	
Measuring modes		track, peak, first peak	
Dimensions (mm)		230 × 124 × 65.2 (H)	
Weight		1.8kg	
Battery pack (charging time)		1.2V NiMH cells 1,000mA (6 hours)	
Continuous running time on a full charge		8 hours	
Battery life		Approx. 300 charges	
Exclusive battery charger		AC 100V-240V input (50 or 60Hz)	
		DC 7.3V-8V output 0.5 A	
Accessories		See p. 18	

HDP

HDP-5
HDP-50
HDP-100
(option)

RoHS CE

Use for measuring slack torque of fastened screws or torque increase.

Model		HDP-5	HDP-50	HDP-100
Peak measuring range	N • m	0.015 - 0.500	0.15 - 5.00	0.15 - 10.00
	lbf • in	0.15 - 4.40	1.5 - 44.0	1.5 - 90.0
	(kgf • cm)	(0.15 - 5.00)	(1.5 - 50.0)	1.5 - 100.0
Accuracy		Up to ± 0.5% (F.S.)		
Measuring modes		track, peak, first peak		
Dimensions (mm)	Display unit	125 × 95.6 × 42(H)		
	Detector	104(L) × ∅21	160(L) × ∅34.5	
	Detector bit socket	Hios 4 or 1/4 Hex	Hios 5 or 1/4 Hex	1/4 Hex
Weight	Display unit	780g		
	Detector	68g	250g	
Detector cord		1.7m (No.: DPC-0506)		
Battery pack (charging time)		1.2V NiMH cells 1,000mA (6 hours)		
Continuous running time on a full charge		8 hours		
Battery life		Approx. 300 charges		
Exclusive battery charger		AC 100V-240V input (50 or 60Hz)		
		DC7.3V-8V output 0.5A		
Accessories		See p. 18		

HM

HM-10
HM-100

RoHS CE

Use for control of torque of automatic drivers.

Model		HM-10	HM-100
Peak measuring range	N • m	0.015 - 1.000	0.15 - 10.00
	lbf • in	0.15 - 9.0	1.5 - 90.0
	(kgf • cm)	(0.15 - 10.0)	(1.5 - 100.0)
Accuracy		Up to ± 0.5% (F.S.)	
Measuring modes		track, peak	
Dimensions (mm)		165 × 95 × 55(H)	
Weight		1.0kg	
Detector cord		1.7m (No.: DPC-0506)	
Battery pack (charging time)		1.2V Nicd cell (8 hours)	
Continuous running time on a full charge		30 hours	
Battery life		Approx. 300 charges	
Exclusive battery charger		AC 100V, 120V or 220V-240V input	
		DC7.2V output 120mA	
Accessories		See p. 18	

HIT

HIT-200
HIT-500
HIT-2000

RoHS CE

Use for control of torque of impact drivers and torque wrenches.

Model		HIT-200	HIT-500	HIT-2000
Peak measuring range	N • m	0.15 - 18.00	1.5 - 50.0	25.0 - 180.0
	lbf • in	1.5 - 160.0	15 - 440	250 - 1600
	(kgf • cm)	(1.5 - 180.0)	(15 - 500)	(250 - 1800)
Accuracy		Up to ± 1% (F.S.)		
Measuring modes		peak, track, first peak		
Dimensions of display (mm)		165 × 95 × 55(H)		
Weight	Display unit	1.0kg		
	Detector	0.85kg	1.65kg	1.65kg
Socket dimensions		9.5sq mm	12.7sq mm	12.7sq mm
Detector cord		1.7m (No.: DPC-0506)		
Battery pack (charging time)		1.2V Nicd cell (8 hours)		
Continuous running time on a full charge		30 hours		
Battery life		Approx. 300 charges		
Exclusive battery charger		AC 100V, 120V or 220V-240V input		
		DC7.2V output 120mA		

●HP Standard Accessories

Market Areas	Model	Fidaptor with Safety Guard	Driver Shaft	Fidaptor Buffer Spring	Grease
China Japan Korea Taiwan Hong Kong Sin-gapore	HP-10	Hios shank ∅4 Measuring range: 0.15-0.6 N • m (Yellow Spring) 1 piece Part No.**TF4G-Z**			Grease 1 piece Part No. **TF-G3**
	HP-100	Hios shank ∅5 Measuring range: 0.5-3 N • m (Black Spring) 1 piece Part No.**TF5G-Z**	Hex. shank (convertible shaft) 1 piece 5 mm subtense (upper) 6.35 mm subtense (Lower) Part No.**TF6XG-0010 (A)** Hios shank ∅4 1 piece Part No.**TF5G-0010-4 (B)** (A) (B)	Yellow Spring 1 piece Measuring range: 0.15-0.6 N • m Part No.**CL65-0040**	
Europe U.S.A. Canada U.K. Australia	HP-10	Hex. shank (convertible shaft) Measuring range: 0.15-0.6 N • m (Yellow Spring) 1 piece 5 mm subtense (upper) 6.35 mm subtense (Lower) Part No.**TF6SG-Z**			
	HP-100	Hex. shank (convertible shaft) Measuring range: 0.5-3 N • m (Black Spring) 1 piece 5 mm subtense (upper) 6.35 mm subtense (Lower) Part No.**TF6XG-Z**		Yellow Spring 1 piece Measuring range: 0.15-0.6 N • m Part No.**CL65-0040**	

Exclusive Battery Charger

Part No.
TCH-MULTI 1 piece
(A plug)
100V-240V

Part No.
TCH-EU 1 piece
(C plug)
100V-240V

*Attached one type based on countries.

Calibration Sheet
(quantity: 3)

220 Volt Adaptor Plug*

*Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.

●Fidaptor
An adaptor that checks the torque value preset on an electric driver and absorbs inertia created by high speed rotation, giving nearly the same torque effect as an actual tap screw.

●Threaded shaft
This threaded shaft is provided for use when the Hios 5mm shank does not fit the bit of the driver to be measured.

●Optional Fidaptors

Model	Measuring range	Bit type	Applicable drivers
TF4S-Z	less than 0.25 N • m	Hios shank ∅4	BL-2000, BL-3000, CL-2000, CL-3000, CL-4000, SS-2000, SS-3000, SS-4000 screwdriver
TF6U-Z	3 - 9 N • m	6.35 mm hex shank	Driver model 6.35mm hex shank

●HDP Standard Accessories

Market Areas	Model	Bit	Detector cord	Auxiliary Arm
China Japan Korea Taiwan Hong Kong Singapore	HDP-5	Hios shank ∅4 +Bit #0 × 40 mm #1 × 40 mm #2 × 40 mm 1 piece each	1 piece Part No. **DPC-0506**	
	HDP-50	Hios shank ∅5 +Bit #0 × 60 mm #1 × 60 mm #2 × 60 mm 1 piece each		1 piece
Europe U.S.A. Canada U.K. Australia	HDP-5	6.35 mm hex shank +Bit #1 × 50 mm #2 × 50 mm 1 piece each		
	HDP-50	6.35 mm hex shank +Bit #1 × 50 mm #2 × 50 mm 1 piece each		1 piece

Exclusive Battery Charger

*Attached one type based on countries.

Part No.
TCH-MULTI 1piece
(A plug)
100V-240V

Part No.
TCH-EU 1piece
(C plug)
100V-240V

Calibration Sheet
(quantity: 3)

220Volt Adaptor Plug*

*Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.

●Accessories with HM series

Select the Fidaptor model that fits the measurement needs of your automatic operation screwdriver.

model: **TFM26-Z**
model: **TFM40-Z**
model: **TFM20-Z**

Accessories to standard Fidaptors

HM-10
Phillips head #1 bit
measuring range:
0.15-0.6 N • m
one yellow spring
model: **TFM26-Z**

HM-100
Phillips head #2 bit
measuring range:
0.5-3 N • m
one black spring
model: **TFM40-Z**

Optional Fidaptor

Phillips head #0 bit
measuring range: 0.25 N • m
(for measurement)
one red spring
model: **TFM20-Z**

HM and HIT standard accessories

(Power units and countries where they can be used)

TCH-100N
100V
Japan

TCH-120N
120V
Korea
Taiwan
U.S.A.
Canada

TCH-230G
220V-240V
Hong Kong
Europe
China

TCH-230B
220V-240V
Singapore
U.K.
Australia