

## Torque Meter

# HP/HDP HM/HIT Series

## HIOS Torque Meters are the industry benchmark.

- Measured data can be imported to a computer.
- Up to 100 data items can be stored in the memory and controlled (applicable to HP and HDP only).
- With one unit of Torque Meter, max, min and ave torque values can be measured (applicable to HP and HDP only).
- New product, HP-1 is ideal for measuring 10N·cm or smaller torque.
- Torque for both clockwise or counterclockwise can be measured.
- As a standard specification, data output and analogue output are available.
- We offer calibration and maintenance services.
- "Inspection Report" is attached to all the Torque Meters.

## HP

HP-1\*  
HP-10  
HP-100



\* Available on request.

Use for making torque settings on electric screwdrivers, checking torque of torque wrenches or measuring torque of various rotating units, etc.



New product  
HP-1

Model		HP-1	HP-10	HP-100
Peak measuring range	N·m		0.015 - 1.000	0.15 - 10.00
	N·mm	1.5 - 100.0		
	lbf·in	0.015 - 0.90	0.15 - 9.00	1.5 - 90.0
	(kgf·cm)		(0.15 - 10.00)	(1.5 - 100.0)
Accuracy		Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions (mm)		230 × 124 × 65.2 (H)		
Weight (kg)		1.8kg		
Battery pack (charging time)		1.2V NiMH x 5 cells 1,000mA (within 6 hours)		
Continuous operating time on a full charge		8 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC 100-240V (50 / 60Hz) Output: DC 7.3-8V 0.5 A		

## HDP

HDP-5  
HDP-50  
HDP-100\*



\* Available on request.

Use for measuring loosened torque of tightened screws or additional tightening torque.



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	Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions (mm)	Display unit	125 × 95.6 × 42 (H)		
	Detector	104(L) × Ø21	160(L) × Ø34.5	
Weight (kg)	Detector bit socket	H4 or 1/4HEX	H5 or 1/4HEX	1/4HEX
	Torque display	0.78kg		
Detector cord		0.068kg	0.25kg	
Battery pack (charging time)		1.2V NiMH x 5 cells 1,000mA (within 6 hours)		
Continuous operating time on a full charge		8 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC 100-240V (50 / 60Hz) Output: DC 7.3-8V 0.5 A		

## HM

HM-10  
HM-100



Use for torque control of screwdrivers for automatic assembly machines



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	Within ±0.5% (F.S.)	
Measuring modes		TRACK and PEAK	
External dimensions (mm)	Torque display	165 × 95 × 55 (H)	
	Detector	119 × 45 × 33(H)	
Weight(kg)	Torque display	1kg	
	Detector	0.35kg	
Detector cord		1.7m (P/N: DPC-0506)	
Battery pack (charging time)		1.2V NiMH x 5 cells (within 8 hours)	
Continuous operating time on a full charge		30 hours	
Battery life		About 300 charges	
Exclusive battery charger		Input: AC100V, 120V, 220-240V Output: DC 7.2V 120mA	

## HIT

HIT-200  
HIT-500  
HIT-2000











HIT Series is available on request.

Use for control 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	Within ±0.5% (F.S.)		
Measuring modes		TRACK, PEAK, FIRST PEAK		
External dimensions of torque display (mm)		165 × 95 × 55 (H)		
Weight (kg)	Torque display	1kg		
	Detector	0.85kg	1.65kg	
Socket mating diameter		9.5 square	12.7 square	
Detector cord		1.7m (P/N: DPC-0506)		
Battery pack (charging time)		1.2V NiMH x 5 cells (within 8 hours)		
Continuous operating time on a full charge		30 hours		
Battery life		About 300 charges		
Exclusive battery charger		Input: AC100V, 120V, 220-240V Output: DC 7.2V 120mA		

## ● HP Standard Accessories

Drive size	H4	H5	1/4HEX or 5HEX	1/4HEX or 5HEX
Model	HP-10	HP-100	HP-10	HP-100
Fidaptor with safety cover	P/N:TF4G-Z (Yellow) 1pc 	P/N:TF5G-Z (Black) 1pc 	P/N:TF6SG-Z (Yellow) 1pc 	P/N:TF6XG-Z (Black) 1pc 
Shaft with screw	HIOS shank (H4) P/N:TF5G-0010-4 1pc  HEX shank (2-step shaft) Upper:5HEX Lower:1/4HEX P/N:TF6XG-0010 1pc 			
Buffer spring	Measuring range: 0.15-0.6 N·m P/N:CL65-0040 (Yellow) 1pc 		Measuring range: 0.15-0.6 N·m P/N:CL65-0040 (Yellow) 1pc 	
Others	<ul style="list-style-type: none"> <li>● Exclusive battery charger* 1pc P/N:TCH-MULTI</li> </ul>	<ul style="list-style-type: none"> <li>● Grease (only for HP-100) P/N:TF-G3 1pc</li> </ul>	<ul style="list-style-type: none"> <li>● Inspection report 1 copy</li> </ul>	* For a battery charger to be used in a country other than Japan, see the battery charger list on P.67, because the applicable battery charger varies depending on the country.

\* We do not sell the grease TF-G3 separately.

## ● Fidaptor List of HP Series (Fidaptor has started to have a limit line since April 2013 so that the output of electric screwdrivers can be measured under certain conditions.)




Model	HP-10				HP-100			
	Standard accessories	Options			Standard accessories	Options		
P/N	TF4G-Z	TF6SG-Z	TF4SG-Z	TF4S-Z	TF5G-Z	TF6XG-Z	TF6U-Z	TF6UP-Z*
Measuring range (N·m)	0.15-0.6	0.15-0.6	0.25 or smaller	0.25 or smaller	0.5-3	0.5-3	3-9	3-9
Bit type	 (Yellow)	 (Yellow)	 (Red)	 (Red) Without a safety cover	 (Black)	 (Black)	 (Black) Without a safety cover 15mm	 (Black) Without a safety cover 30mm
	HIOS shank H4	HEX shank (2-step shaft) Upper: 5HEX, Lower: 1/4HEX	HIOS shank H4	HIOS shank H4	HIOS shank H5	HEX shank (2-step shaft) Upper: 5HEX, Lower: 1/4HEX	HEX shank 1/4HEX	HEX shank 1/4HEX

\* The fidaptor for CL-9000 has to be TF6UP-Z.

## ● HDP Series Standard Accessories

Drive size	H4	H5	1/4HEX	1/4HEX	1/4HEX
Model	HDP-5	HDP-50	HDP-100	HDP-5	HDP-50
Bit type (1 bit each)	HIOS Shank (H4) +#0×40 mm +#1×40 mm +#2×40mm	HIOS Shank (H5) +#0×60 mm +#1×60 mm +#2×60 mm	HEX Shank (1/4HEX) +#1×50 mm +#2×50 mm	HEX Shank (1/4HEX) +#1×50 mm +#2×50 mm	HEX Shank (1/4HEX) +#1×50 mm +#2×50 mm
Support arm				1pc	1pc
Others	<ul style="list-style-type: none"> <li>● Exclusive battery charger* 1pc P/N:TCH-MULTI</li> </ul>	<ul style="list-style-type: none"> <li>● Detector cord: 1.7m 1pc P/N:DPC-0506</li> </ul>	<ul style="list-style-type: none"> <li>● Inspection report 1 copy</li> </ul>	* For a battery charger to be used in a country other than Japan, see the battery charger list on P.67.	

## ● HM Series Standard Accessories

Model	Fidaptor with screw	Buffer spring	Screw	L- wrench	Others
HM-10	P/N:TFM26-Z 1pc (Yellow) 	Replacement screws on the top of fidaptor: 5pcs		1.5mm (1pc)	<ul style="list-style-type: none"> <li>● Exclusive battery charger* 1pc P/N:TCH-100N</li> <li>● Detector cord: 1.7m 1pc P/N:DPC-0506</li> <li>● Inspection report 1 copy</li> </ul>
HM-100	P/N:TFM40-Z 1pc (Black) 	P/N:CL65-0040 Measuring range: 0.15 to 0.6 N·m 	HEX socket set screws for fixing: 2 pcs	1.5mm (1pc) & 2mm (1pc)	




\* For a battery charger to be used in a country other than Japan, see the battery charger list on P.67.

### To customers who use the old models of HP/HDP Series

The exclusive battery charger for the old models of HP/HDP Series (see the photos below) should be TCH-100N, TCH-120N, TCH-230G or TCH-230B. Check your Torque Meter. Please see the battery charger list on P.67.

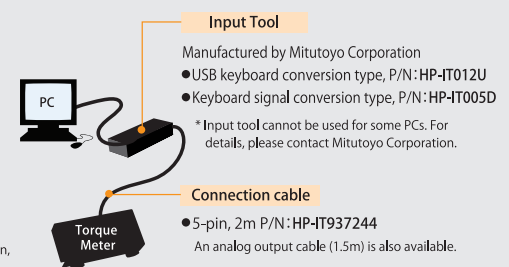


## ● Fidaptor List of HM Series

Model	HM-10		HM-100
Classification	Standard accessories	Options (to be purchased separately)	Standard accessories
P/N	TFM26-Z	TFM20-Z	TFM40-Z
Measuring range (N·m)	0.15-0.6	0.25 or below	0.5-3
	 (Yellow)	 (Red)	 (Black)
Applicable tip No.	+ #1	+ #0	+ #2
Screw head diameter	M2.6	M2.0	M4.0

### About data output

When you output the data, you have to connect the Torque Meter to the input tool to import the output data to a PC. Connect the input tool and the Torque Meter with a cable. You have to purchase the input tool and the cable separately.



\* If you have any inquiries about the connection, please contact HIOS distributors.