

# Digital Torque Meter Series

## Hios torque meters are world standard instruments.

- Measurement data can be transferred to a computer. (This requires use of an input tool.)
- Up to 100 data measurements can be stored in memory at a time (HP series and HDP series).
- Can be set for two measurement units; N · cm or N · m.
- Measurements can be easily taken in either clockwise or counterclockwise direction.
- Stores and displays torque peak values for accurate readout.
- 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.
- First peak measuring mode (F.PEAK) gives precision measurements of torque wrenches or other tools (HP series and HDP series).

# HP

**HP-10  
HP-100**



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		1.8 kg	
Battery pack (charging time)		five 1.2 V NiMH cells 1,000 mA (6 hours)	
Continuous running time on a full charge		8 hours	
Battery life		Approx. 300 charges	
Exclusive battery charger		AC 100 - 240 V input (50 or 60 Hz)	
		DC 7.3 - 8 V output	0.5 A
Accessories		See p. 30	

# HDP

**HDP-5  
HDP-50**



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

Model		HDP-5	HDP-50
Peak measuring range	N · m	0.015 - 0.500	0.15 - 5.00
	lbf · in	0.15 - 4.40	1.5 - 44.0
	kgf · cm	0.15 - 5.00	1.5 - 50.0
Accuracy		Up to ± 0.5% (F.S.)	
Measuring modes		track, peak	
Dimensions (mm)	Display unit	125 × 95.6 × 42(H)	
	Detector	104(L) × ∅21	160(L) × ∅34.5
	Detector bit socket	Hios4 or 1/4 Hex	Hios5 or 1/4 Hex
Weight	Display unit	780 g	
	Detector	68 g	250 g
Detector cord		1.7 m (No.: DPC-0506)	
Battery pack (charging time)		five 1.2 V NiMH cells 1,000 mA (6 hours)	
Continuous running time on a full charge		8 hours	
Battery life		Approx. 300 charges	
Exclusive battery charger		AC 100 - 240 V input (50 or 60 Hz)	
		DC 7.3 - 8 V output	0.5 A
Accessories		See p. 30	

# HM

**HM-10  
HM-100**



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		1.0 kg	
Detector cord		1.7 m (No.: DPC-0506)	
Battery pack (charging time)		five 1.2 V Nicd cell (8 hours)	
Continuous running time on a full charge		12 hours	
Battery life		Approx. 300 charges	
Exclusive battery charger		AC 100 V, 120 V or 220 - 240 V input	
		DC 7.2 V output	120 mA
Accessories		See p. 30	

# HIT



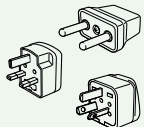
**HIT-200  
HIT-500  
HIT-2000**



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

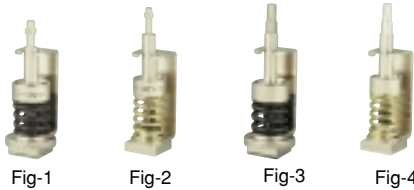
Model		HIT-200	HIT-500	HIT-2000
Peak measuring range	N · m	1.5 - 18.0	1.5 - 50.0	25 - 180
	lbf · in	15.0 - 180.0	15 - 440	250 - 1800
	kgf · cm	15.0 - 180.0	15 - 500	250 - 1800
Accuracy		Up to ± 1% (F.S.)		
Measuring modes		peak, track, first peak		
Dimensions of display (mm)		165 × 95 × 55(H)		
Weight	Display unit	1.0 kg		
	Detector	0.85 kg	1.65 kg	1.65 kg
Socket dimensions		9.5 sq mm	12.7 sq mm	12.7 sq mm
Detector cord		1.7 m (No.: DPC-0506)		
Battery pack (charging time)		five 1.2 V Nicd cell (8 hours)		
Continuous running time on a full charge		12 hours		
Battery life		Approx. 300 charges		
Exclusive battery charger		AC 100 V, 120 V or 220 - 240 V input		
		DC 7.2 V output	120 mA	

## ● HP Standard Accessories

Market Areas	Model	Fidaptor With Safety Guard	Driver Shaft	Fidaptor Buffer Spring	Grease	Exclusive Battery Charger
China Japan Korea	HP-10	Hios shank $\varnothing 4$ Measuring range: 0.15-0.6 N·m (Yellow Spring) 1 piece Part No.TF4G-Z (Fig-2)				    
Taiwan Hong Kong Singapore	HP-100	Hios shank $\varnothing 5$ Measuring range: 0.5-3 N·m (Black Spring) 1 piece Part No.TF5G-Z (Fig-1)	Hex. shank (convertible shaft) 1 piece 5 mm subtense (upper) 6.35 mm subtense (Lower) Part No.TF6XG-0010 (Fig-5)	Yellow Spring 1 piece Measuring range: 0.15-0.6 N·m Part No.CL65-0040	Grease 1 piece Part No. TF-G3	
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 (Fig-4)	Hios shank $\varnothing 4$ 1 piece Part No.TF5G-0010-4 (Fig-6)			
	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 (Fig-3)		Yellow Spring 1 piece Measuring range: 0.15-0.6 N·m Part No.CL65-0040		

### ● 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.



\*One of three types of adaptor plug is supplied, if required by the country of shipment. Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.

### ● Threaded shaft




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



### ● Optional Fidators

Model	Measuring range	Bit type	Applicable drivers
TF4S-Z	less than 0.25 N·m	Hios shank $\varnothing 4$	CL· $\alpha$ ·SS mini type screwdriver
TF6U-Z	3 - 9 N·m	6.35 mm hex shank	VZ series (120 V): VZ-1820, 3012, 4506 Rechargeable models: F-9000, 9000S, 9001, 9800, 9500, 9900
TF6UP-Z	3 - 9 N·m	6.35 mm hex shank	CL-9000

## ● HDP Standard Accessories

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

\*One of three types of adaptor plug is supplied, if required by the country of shipment. Users in Japan, South Korea, Taiwan, Mexico, the United States and Canada do not need an adaptor plug.

### HM and HIT standard accessories

(Power units and countries where they can be used)



## ● Accessories with HM series

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



### Accessories to standard Fidaptors

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

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

### Optional Fidaptor

Phillips head #0 bit  
measuring range: 0.25 N·m  
(for measurement)  
one red spring  
model: TFM20-Z (Fig-3)

## Order codes

### ● HP-10

Model	Order Code	Voltage	*
HP-10	HPN-10-A1	100 V-120 V	H N-m/ X N-cm
	HPN-10-A2		H N-m/ X lbf-in
	HPN-10X-A1		H N-m/ X N-cm
	HPN-10X-A2		H N-m/ X lbf-in
	HPN-10X-A3		H N-m/ X kgf-cm

### ● HP-100

Model	Order Code	Voltage	*
HP-100	HPN-100-C1	220 V	H N-m/ X N-cm
	HPN-100X-C1		H N-m/ X lbf-in
	HPN-100-C2		H N-m/ X N-cm
	HPN-100X-C2		H N-m/ X lbf-in
	HPN-100-C3		H N-m/ X kgf-cm

### ● HP-100

Model	Order Code	Voltage	*
HP-100	HPN-100-A1	100 V-120 V	H N-m/ X N-cm
	HPN-100X-A1		H N-m/ X lbf-in
	HPN-100-A2		H N-m/ X N-cm
	HPN-100X-A2		H N-m/ X lbf-in
	HPN-100-A3		H N-m/ X kgf-cm

### ● HP-100

Model	Order Code	Voltage	*
HP-100	HPN-100-C1	220 V	H N-m/ X N-cm
	HPN-100X-C1		H N-m/ X lbf-in
	HPN-100-C2		H N-m/ X N-cm
	HPN-100X-C2		H N-m/ X lbf-in
	HPN-100-C3		H N-m/ X kgf-cm

### ● HDP-5

Model	Order Code	Voltage	*
HDP-5	HDPN-5-A1	100 V-120 V	H N-m/ X N-cm
	HDPN-5X-A1		H N-m/ X lbf-in
	HDPN-5-A2		H N-m/ X N-cm
	HDPN-5X-A2		H N-m/ X lbf-in
	HDPN-5-A3		H N-m/ X kgf-cm

### ● HDP-5

Model	Order Code	Voltage	*
HDP-5	HDPN-5-C1	220 V	H N-m/ X N-cm
	HDPN-5X-C1		H N-m/ X lbf-in
	HDPN-5-C2		H N-m/ X N-cm
	HDPN-5X-C2		H N-m/ X lbf-in
	HDPN-5-C3		H N-m/ X kgf-cm

### ● HDP-50

Model	Order Code	Voltage	*
HDP-50	HDPN-50-A1	100 V-120 V	H N-m/ X N-cm
	HDPN-50X-A1		H N-m/ X lbf-in
	HDPN-50-A2		H N-m/ X N-cm
	HDPN-50X-A2		H N-m/ X lbf-in
	HDPN-50-A3		H N-m/ X kgf-cm

### ● HDP-50

Model	Order Code	Voltage	*
HDP-50	HDPN-50-C1	220 V	H N-m/ X N-cm
	HDPN-50X-C1		H N-m/ X lbf-in
	HDPN-50-C2		H N-m/ X N-cm
	HDPN-50X-C2		H N-m/ X lbf-in
	HDPN-50-C3		H N-m/ X kgf-cm

\*H : Hios shank fidaptor  
X : 1/4HEX shank fidaptor

### ● Detector cord

Model	Order Code
DPC-0506	DPC-0506

### ● HM-10

Model	Order Code	Voltage
HM-10	HM-10	100 V
	HM-10-120	110 V - 120 V
	HM-10-220	220 V - 240 V

### ● HM-100

Model	Order Code	Voltage
HM-100	HM-100	100 V
	HM-100-120	110 V - 120 V
	HM-100-220	220 V - 240 V

### ● HIT-200

Model	Order Code	Voltage
HIT-200	HIT-200	100 V
	HIT-200-120	110 V - 120 V
	HIT-200-220	220 V - 240 V

### ● HIT-500

Model	Order Code	Voltage
HIT-500	HIT-500	100 V
	HIT-500-120	110 V - 120 V
	HIT-500-220	220 V - 240 V

### ● HIT-2000

Model	Order Code	Voltage
HIT-2000	HIT-2000	100 V
	HIT-2000-120	110 V - 120 V
	HIT-2000-220	220 V - 240 V