

# Torque measuring instrument Comprehensive catalog

No.E1151

The high performance and high quality goods trusted by the customer are offered.



A Japan cedar tree (CEDAR) grows up straightly, and it becomes thickly and large, and branches and leaves overlap several times over, and feel forcibleness. The figure symbolizes the development nature to the future of our company, and the infinite possibility. And as for three lines in a logo mark, our company always raises

"Technology, quality, and reliance", and it means that "a customer, a cooperation company, and our company" both grow.

## A certification on calibration and a result of calibration

A certification on calibration and a result of calibration are appended to all the products I am allowed to supply. Simultaneously with purchase, you can use it as a part of a customer's quality system.

## Calibration trust service

In order to maintain the accuracy of a torque measuring instrument, a periodical calibration inspection is required. Since our company is the special maker who performs a design and manufacture of a torque measuring instrument to after-sale service, calibration accuracy can maintain consistently.

## Selection guide

CEDAR measuring instrument, there are a method of managing a screw bundle tool, and the method of the tool itself binding tight and binding torque tight to the torque value noticed and set up.

Management of a tool		The kind of tool		Measurement rang
DI-9M-8/08	CD-100M/10M	DI-11	Electric drivers (for high torque)	2.0 mN·m~ 20 N·m 0.20~200 kgf·cm 0.20~174 lbf·in (Changes with models)
DI-1M-IP series	DI-4B-25		OIL-PULS Tools AIR Tools	0.30~ 500 N·m 3.0~5000 kgf·cm 3.0~4500 lbf·in (Changes with models)
DIS (Separate type) series				
DIS-IP05/IP5/IP50/IP200/IP500	Display part one apparatus DWT-200		Torque driver wrench	2.0mN·m~ 500 N·m 0.020~5000 kgf·cm 0.020~4500 lbf·in (Changes with models)
DIS-IPS5C/IPS20C			Automatic and a half automatic machine	0.020~ 20 N·m 0.20~200 kgf·cm 0.20~174 lbf·in (Changes with models)
DIS-RL005/05/2/6			Bolting management (Bolting of a screw and a bolt)	0.2 mN·m~ 10 N·m 0.002~100 kgf·cm 0.002~90 lbf·in (Changes with models)
Display part one apparatus				
DID-05/4	DIW-15/20/75/12		Bolting management (Bolting of a screw and a bolt)	2.0mN·m~120 N·m 0.020~1200 kgf·cm 0.020~1080 lbf·in (Changes with models)
Measurement and inspection of other special torque				
Slip Torque tester DI-12	Rotate Torque tester NTS-6		The torque check of the tightened screw The load torque under rotation are measured	2.0 mN·m~ 15 N·m 0.020~150 kgf·cm 0.020~134 lbf·in (Changes with models)
Screw counter				
ECT-02/03/04/05			It checks whether a worker forget to tighten a screw the tightening of skewed screws, the galling of screws, the idling of screws and stripping of s crew can also be detected.	

## Management of electric screw driver

### Torque Tester DI-9M-08/8

Electric driver

Torque driver

**NEW** A new function is added.

LCD display 4 figures

Torque setting function

Data memory built-in

USB output

Auto-power-off

Display zero clearance

Battery drive

Joint for measurement (ow)

A wide measurement range and OW joint (PAT) can perform daily check of electric screw driver easily.

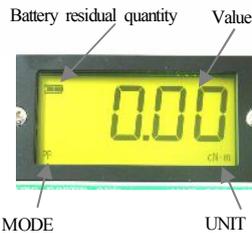


Form	DI-9M-08	DI-9M-8
Measurement range	2.0~800 mN·m 0.020~8 kgf·cm 0.020~7 lbf·in	0.020~8 N·m 0.20~80 kgf·cm 0.20~70 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)	
Outside size	160(W)×125(D)×55(H)	
Accessories	Measurement joint OW025 / OW10 Case / AC adaptor	Measurement joint OW20 / OW60 Case / AC adaptor

USB data output terminal



LED for a charge check



### New function

(1) Display Board Became Legible.

(Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data storage is 800 affairs.
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/180 seconds).
- USB terminal data output



OW joint



Cube

### Electric driver OW joint (PAT) is measurement-ended by one-touch.

Attaching a bit to a screw driver, work is bound tight, it is only a direction and measurement ends it. The conventional inversion operation is not required. By the method until now, friction of a screw had affected the measurement result. Since this joint is the structure where it is not influenced of fricative, it can manage torque stabilized for a long period of time.

Measurement joint specification

	OW-025	OW-10	OW-20	OW-60
Measurement range	MAX 0.25 N·m	MAX 1 N·m	MAX 2 N·m	MAX 6 N·m
Bit size	plus screw M2.6	plus screw M3	plus screw M4	plus screw M6

### Torque driver In measurement of a torque driver torque wrench

Use a cube (with a 5th surface screw hole).



## Management of electric screw driver (high torque)

### Torque Tester DI-11

Electric driver(High torque)

Torque driver wrench

**NEW** A new function is added.

LCD display 4 figures

Torque setting function

Data memory built-in

USB output

Auto-power-off

Display zero clearance

Battery drive

Joint for measurement

To everyday management of the electric driver of high set torque etc.



### New function

(1) Display Board Became Legible.

(Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data storage is 800 affairs.
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/180 seconds).
- USB terminal data output

Measurement joint



Form	DI-11
Measurement range	0.10~20 N·m 1.0~200 kgf·cm 1.0~174 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)
Outside size	150(W)×220(D)×74(H)
Accessories	Measurement joint SJ-50 SJ-100 Case / AC adaptor

Management of electric screw driver

**Torque Tester CD-100/10**

Electric driver

Torque driver wrench

**New** A new function is added.

LCD display 3.5 figures

Torque setting function

Data memory built-in

USB output

Auto-power-off

Display zero clearance

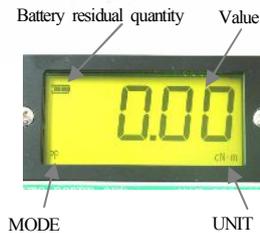
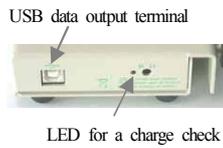
Battery drive

Joint for measurement (SJ)

Unreasonableness is effective! To the high torque which starts suddenly 3 times as many improvement in durability as this SJ joint (PAT) can perform everyday check of the electric driver of the conventional system.



Form	CD-10M	CD-100M
Measurement range	0.010~1 N·m 0.10~10 kgf·cm 0.10~9 lbf·in	0.10~10 N·m 1.0~100 kgf·cm 1.0~90 lbf·in
Accuracy	±0.5% (199 digit or less ±1digit)	
Outside size	155(W)×125(D)×55(H)	
Accessories	Screw joint SJ10 (Four bits) Case / AC adaptor	Screw joint SJ50 / SJ10K (Four bits) Case / AC adaptor



**New function**

- (1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)
- (2) Fault charge protection loading. It is pilot-lamp lighting during charge.
  - Yes-no decision □ Average calculation □ Data storage is 800 affairs.
  - A convenient functional setup of a setup of a measurement start value etc.
  - Data output at real time (every about 1/180 seconds). □ USB terminal data output



**About an adapter (measurement joint SJ)**

There is no decomposition of the joint depended for rewinding too much.

Since the adapter attached is the coil spring compression system of the conventional system, you can use it by the conventional management method. Moreover, the worries about disassembly of the adapter twisted for returning this adapter too much with special structure etc. are absolutely none. You can use it in comfort. (PAT)



**A bit (it attaches to a tester) can also be used.**

According to the model of driver, wearing of various bits is possible.

- (1) If it equips with screw thread parts, it can measure, with the bit of use attached. In breakage of a screw thread head etc., screw thread parts are only exchanged.
- (2) Since Bit Plug Mouth Can be Detached and Attached, according to Model of Driver, Bit is Exchangeable.

Management of torques, such as an air driver

**Torque Tester DI-4B-25**

OIL-PULS Tools

AIR Tools

Torque driver wrench

LED display 4 figures

Auto-power-off

Display zero clearance

Battery drive

Blow counter

RS232C output

Joint for measurement

The best for everyday check of an air tool.

It is convenient for torque measurement of air driver of a torque control



Form	DI-4B-25
Measurement range	0.30~25 N·m 3.0~250 kgf·cm 3.0~220 lbf·in
Operating range of PD Mode	0.70N·m~, 7.0kgf·cm/ lbf·in~
Accuracy	±0.5% (499 digit or less ±3digit)
Outside size	150(W)×220(D)×74(H)
Accessories	Hard joint (M10) / Soft joint (M10) Case / AC adaptor
Please choose AC adaptor out of 120V, and 230V. * (PD) is a first peak hold mode.	

Soft joint	Hard joint
 <p>17mm of hexagon-head-bolt opposite neighborhoods Rotate about three times by the time a nut or a bolt arrives at a bearing surface and reaches all torque <b>For elastic body.</b></p>	 <p>17mm of hexagon-head-bolt opposite neighborhoods Rotate about 1-10 by the time a nut or a bolt arrives at a bearing surface and reaches all torque. <b>For rigid object.</b></p>

Measurement of an impact tool is with 60% or less of torque of a measurement maximum.

**Torque Tester DI-1M-IP50/200/500** OIL-PULS Tools AIR Tools Torque driver wrench

LED display 4 figures USB output Auto-power-off Display zero clearance Battery drive Blow counter

At a blow counter, torque measured value is displayed as the number of blows within fixed time. Since it is light weight and small, it installs in a work line and an effect is demonstrated to the scheduled inspection of a tool.



Form	DI-1M-IP50	DI-1M-IP200	DI-1M-IP500
Measurement range	0.30~50 N·m 3.0~500 kgf·cm 3.0~430 lbf·in	3.0~200 N·m 30~2000 kgf·cm 30~1800 lbf·in	3.0~500 N·m 30~5000 kgf·cm 30~4500 lbf·in
Operating range of PD Mode	0.70N·m~, 7.0kgf·cm/ lbf·in~	7.0N·m~, 70kgf·cm/ lbf·in~	7.0N·m~, 70kgf·cm/ lbf·in~
Accuracy	±0.5% (499 digit or less ±3digit)		
Outside size	Indicator : 150(W)×115(D)×48(H)		
	Detector : Refer to the above.		
Accessories	Case	—	
	AC adaptor		
Please choose AC adaptor out of 120V, and 230V. (PD) is a first peak hold mode.			

\*Measurement of an impact tool is with 60% or less of torque of a measurement maximum.

**Torque Tester DIS-IP5/IP50/IP200/IP500** Torque driver wrench

LCD display 4 figures Torque setting function Data memory built-in USB output Auto-power-off

Display zero clearance Battery drive

The best for everyday check of the bolting tool of a screw / bolt

You can use a torque wrench (preset type), torque driver, etc. as an internal standard machine of a torque tool.

**New function**

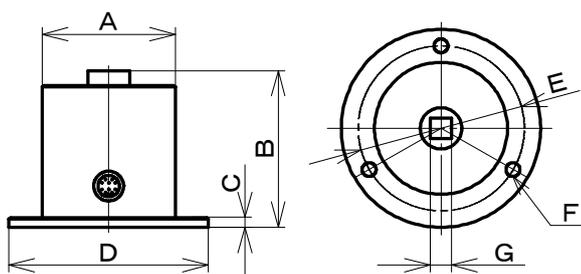
- (1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)
- (2) Fault charge protection loading. It is pilot-lamp lighting during charge.
  - Yes-no decision  Average calculation  Data storage is 800 affairs.
  - A convenient functional setup of a setup of a measurement start value etc.
  - Data output at real time (every about 1/180 seconds).  USB terminal data output



Form	DIS-IP5	DIS-IP50	DIS-IP200	DIS-IP500
Measurement range	0.020~5 N·m 0.20~50 kgf·cm 0.20~45 lbf·in	0.20~50 N·m 2.0~500 kgf·cm 2.0~450 lbf·in	2.0~200 N·m 20~2000 kgf·cm 20~1740 lbf·in	2.0~500 N·m 20~5000 kgf·cm 20~4500 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)			
Outside size	Indicator : 100(W)×105(D)×33(H) (A projection part does not contain.)			
	Detector : Refer to the Lower part.			
Accessories	Case	—		
	AC adaptor ( Please choose AC adaptor out of 120V, and 230V. )			

\* There is also DIS-IP05 (operating range is 2.0mNm-500.0mNm).

**Outside figure**



	IP5(IP05)	IP50	IP200	IP500
A	φ40	φ50	φ60	φ80
B	41.2	63	73	99
C	5	10	10	15.5
D	φ60	φ90	φ110	φ140
E	φ50	φ74	φ90	φ116
F	3 division φ4.5	3 division φ6.3	3 division φ8.3	3 division φ10.5
G	6.35sq	9.5sq	12.7sq	19sq
Weight	200g	600g	1kg	2.5kg

## Management of torque wrench

The best for everyday check of the torque wrench in the spot

### Torque wrench tester DWT-200 Torque driver wrench

LED display 4 figures Auto-power-off

Only a required function is carried. Torque wrench operation torque and actual load torque can also be measured.



Form	DWT-200
Measurement range	7.0~200 N·m 70~2000 kgf·cm 70~1500 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)
The measurement direction	CW (right)
Outside size	200(W)×120(D)×96(H)
Accessories	Socket adapter(□9.5-□12.7)

## Bolting machines, such as automatic and a half automatic machine

### Torque Tester DIS-IPS5/IPS20 Bolting machines

LCD 4 figures Torque setting function Data memory USB output Auto-power-off Battery drive

Since the detector is small, it is incorporable into an automatic machine.

#### New function

(1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data memory 800 data
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/180 seconds).
- USB terminal data output



Rewinding becomes unnecessary at OW joint.

Form	DIS-IPS5C	DIS-IPS20C
Measurement range	0.020~5 N·m 0.20~50 kgf·cm 0.20~45 lbf·in	0.20~20 N·m 2.0~200 kgf·cm 2.0~174 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)	
Outside size	Indicator : 100(W)×105(D)×33(H) (A projection part does not contain.)	
Accessories	Joint(cube)	□20 mm M4/M5M6/M8
	Joint OW-10	Joint OW-20

As for "DIS-IPS5/IPS20" of a right round shape, the amount of detecting-element stationary portion is

## The check of the torque of a screw and bolt

It is compactly about a detection part by the separate type.

### Digital torque driver DIS-RL005/RL05/RL2/RL6 Bolting of a screw

Torque setting function Data memory built-in USB output Auto-power-off Display zero clearance Battery drive

**New function** (1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data memory 800 data
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/180 seconds).
- USB terminal data output

It becomes light smaller and measurement of minute torque is easy.



Form	DIS-RL005	DIS-RL05	DIS-RL2	DIS-RL6
Measurement range	0.20~50 mN·m 2.0~500 g·cm	2.0~500 mN·m 0.020~5 kgf·cm 0.020~4.5 lbf·in	0.010~2 N·m 0.10~20 kgf·cm 0.10~17.4 lbf·in	0.10~6 N·m 1.0~60 kgf·cm 1.0~54 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)		±0.5% (199digit or less ±1digit)	
Outside size	Indicator : 100(W)×105(D)×33(H) (A projection part does not contain.)			
	detector: φ21(grip)×123(L)		detector : φ30(grip)×145(L)	
Accessories	φ4 Bit + #00, #0	φ4 Bit + #0, #1	6.35HEX Bit + #1, #2	
	Case/AC adaptor			

The tool with a bundle of a screw and bolt

**Digital torque driver DID-05/4** Bolting of a screw and a bolt

**New** A new function is added.

LCD display 4 figures Torque setting function Data memory built-in USB output Auto-power-off  
 Display zero clearance Battery drive Screw counter One-way function

**New function**

(1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data memory 800 data
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/160 seconds).
- USB terminal data output

It is lightweight, and since it has the structure which is easy to use, measurement stabilized by prolonged work can be performed. Since it is one apparatus, measured value can be read clearly.



Form	DID-05	DID-4
Measurement range	2.0~500 mN·m 0.020~5 kgf·cm 0.020~4.5 lbf·in	0.020~4 N·m 0.20~40 kgf·cm 0.20~35 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)	
Outside size	φ 34 (grip)×259(L)	φ 34 (grip)×259(L)
Accessories	φ4 Bit + #1 (For one-way For fixation) AC adaptor	6.35HEX Bit + #1, #2 AC adaptor

- Prevent a failure to bind tight by screw bundle counter
- One-way mechanism (DID-05) -Ratchet mechanism (DID-4)

The tool with a bundle of a screw and bolt

**Digital torque Wrench DIW-15/20/75/120** Bolting of a screw and a bolt

LCD display 4 figures Torque setting function Data memory built-in USB output Auto-power-off  
 Display zero clearance Battery drive Screw counter One-way function

**New function**

(1) Display Board Became Legible. (Measurement mode and a measurement unit. Other coded data is displayed.)

(2) Fault charge protection loading. It is pilot-lamp lighting during charge.

- Yes-no decision
- Average calculation
- Data memory 800 data
- A convenient functional setup of a setup of a measurement start value etc.
- Data output at real time (every about 1/160 seconds).
- USB terminal data output

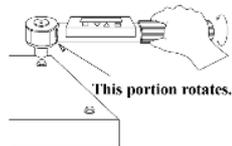
DIW-15/20/75/120



The bolting mechanism and the meter part were united, the joint part rotated, torque value could be read by the hand at every angle, and workability improved. It corresponds to the bolt to M14.

**Since a newly developed (PAT.P)**

Wrench head portion rotates about 300 degrees, measurement of any angles is the front of a display board.




- Prevent a failure to bind tight by screw bundle counter

Form	DIW-15	DIW-20	DIW-75	DIW-120
Measurement range	0.20~15 N·m 2.0~150 kgf·cm 2.0~130 lbf·in	0.20~20 N·m 2.0~200 kgf·cm 2.0~174 lbf·in	0.20~75 N·m 2.0~750 kgf·cm 2.0~650 lbf·in	2.0~120 N·m 20~1200 kgf·cm 20~1080 lbf·in
Accuracy	±0.5% (499 digit or less ±3digit)			
Outside size	φ 34 (grip)×236(L) socket part 6.35sq	φ 34 (grip)×235(L) socket part 9.5sq	φ 34 (grip)×320(L) socket part 9.5sq	φ 34 (grip)×445(L) socket part 12.7sq
Accessories	AC adaptor	One-way mechanism socket / AC adaptor		

## The torque check of the tightened screw

- The check of "the torque value of the screw actually tightened" by the product random inspection
- The output torque of power driver is set up and managed by asking for the relation between "Value of torque tester" and "torque value of the screw actually tightened".

### Slip Torque Tester DI-12 series

Bolting torque of a screw and a bolt

Inspection of a screw and a bolt

LCD display 4 figures USB output Auto-power-off AC power-supply

The torque value of the firm screw is measured.

The place which performs a bundle examination and slides it from a firm point is caught, and torque value is judged. Smooth bundle work is performed by motor drive.

Since a motor is stopped after judging, neither superfluous torque nor looser torque inspection has necessity

#### DI-12-SL4



#### DI-12-SL02



#### DI-12-SL15



Form	DI-12-SL4	DI-12-SL02	DI-12-SL15
Measurement range	0.030~4.000 N·m	1.5~200.0 mN·m	0.30~15.0000 N·m
	kgf-cm and lbf-in can also be responded		
Accuracy	±1% (500 or less digit±5digit)	±0.5% (200 or less digit±1digit)	
Detection judging	If a slip torque value is detected, you will be told about by green lamp lighting.		
Bit plug form	HEX 6.35	φ4	sq 6.35
Outside dimension	Detector	φ60×155×80 (about 290g)	φ20×145(about 80g)
	Indicator	166(W)×142(D)×48(H) (about 1kg)	
Accessories	Bit ⊕ #1 #2	Bit ⊕ #0	-

## The load torque under rotation are measured

Rotation starting torque and the load torque under rotation are measured.  
(Thing which does not rotate itself and which does not have power)

### Rotate Torque Tester NTS-6 series

Inspection of running torque

**New** To inspection of a printer copy machine, a zoom lens doorknob mechanism, a hinge mechanism, etc.

LCD display 4 figures USB output AC power-supply

Measurement by the high precision gear motor and the strain meter

While an output shaft carries out self-rotation, the load fluctuation of a solid of revolution is caught by the sensor.



Form	NTS-6				
	S-1	S-2	S-5	S-10	S-20
Measurement range	3.0~100 mN·m	3.0~200 mN·m	0.030~0.5 N·m	0.030~1 N·m	0.030~2 N·m
	kgf-cm and lbf-in can also be responded.				
Accuracy	±1% (300 or less digit±3digit)				
Rotational frequency (at the time of no-load)	about 85 rpm	about 25 rpm	about 13 rpm	about 18 rpm	
Torque judging	It is in measuring range and a setup of a maximum value and a minimum value is possible. O.K. In the Set point •• OK Lamp lighting NG Outside the Set point •• NG Lamp lighting				
Bit plug form	φ4			HEX6.35	
Outside dimension	Indicator	166(W)×142(D)×48(H)			
	Detector	φ28×149	φ37×191	φ40×235	
Accessories	Bit				

## Screw Counter

**The number of screw bolting is set and it checks whether a worker forget to tighten a screw!**

The bolting end signal from electric screw driver is counted and told.

### Screw Counter ECT Series Electric driver

**The example of a correspondence driver** To the electric driver out of which the screw bundle completion signal has come

\* There is also a model which cannot be adapted. Moreover, in part, also when change of a setup is required, it is. Please ask to our company for details.

Nitto Kohki – : by SP specification Nakamura MFG– : by the SWP specification HIOS – : by the OPC specification ETC

### Screw Counter ECT-02H Low price and a short form

**Counts Intrusion detection of a screw Idling detection of a screw Count cancellation**



By timer loading, the tightening of skewed screws, the galling of screws, the idling of screws and stripping of screw can also be detected. Since it is lightweight and compact, the number of counts of a screw bundle can be checked in the position near a worker. After the torque rise, if reverse rotation operation is performed immediately, the function in which the number of counts returns is attached. (Only when the reverse signal is outputted from the driver)

### Screw Counter ECT-03/04 For Work sensor

**For Work sensor Work O.K. output Counts O.K. output Chattering prevention of a time setting sensor**



It will become an error, if a work is removed before attaching the sensor which judges the existence of a work and becoming a bolting number. Since a signal will be outputted if bolting completion is carried out and a work is removed – a half – you can also use an automatic line. After the torque rise, if reverse rotation operation is performed immediately, the function in which the number of counts returns is attached (Only when the reverse signal is outputted from the driver) ECT-04 are with a part counter.

### Screw Counter ECT-05 Work sensor correspondence

**Work sensor correspondence Work O.K/NG output Counts O.K/NG output Work sensor ON/OFF change**



It will become an error, if a work is removed before attaching the sensor which judges the existence of a work and becoming a bolting number. Since a signal will be outputted if bolting is completed – a half – you can also use an automatic line. After the torque rise, if reverse rotation operation is performed immediately, the function in which the number of counts returns is attached. (Only when the reverse signal is outputted from the driver) With a DIP switch, even if he has no work sensor, it can be used. It can use for various work managements with various outputs.

Form	ECT-02H	ECT-03	ECT-04	ECT-05
setting counts	1-99 (count decrease system)			
Timer setup	LO (under time) TIME 0.0 - 2.0 seconds		HI (over time) TIME 0.0 - 9.0 seconds	
Size	87(H)×75(W)×15(D)	108(H)×77(W)×40(D)	160(H)×77(W)×40(D)	126(H)×112(W)×35(D)

## Kind in Measurement Mode

The torque measurement apparatus of our company carries the following four measurement modes.

P-P (peak to peak)	The maximum under measurement is always displayed. Usually, this mode is used.
T-R (track)	It is mainly used at the time of calibration etc. The value of the load torque concerning a detector is displayed as it is.
P-D (peak-down)	A value when a load torque value changes from a rise to descent is displayed. It carries out, once it pushes a clear button, when applying re-load. It is suitable for measurement of a torque wrench etc.
C (Real-time Output)	The data output of the load torque value is carried out very about 1 / 80~180 seconds. It is suitable for torque curve creation or a screw bundle examination.

## After-sale service

When the goods I was allowed to supply break down, I fix, adjust and do in our company. About the model which became a manufacture stop, parts are held for [ principle ] five years. However, please understand beforehand that it is by the production stop of the parts by other makers etc. also when it cannot fix. Moreover, since the scheduled inspection of a measuring instrument and overhaul are also performed, please contact me to the store for which you asked, or direct our company in the case of hope.

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\* The contents of this catalog may change specification and a design without a preliminary announcement for improvement.