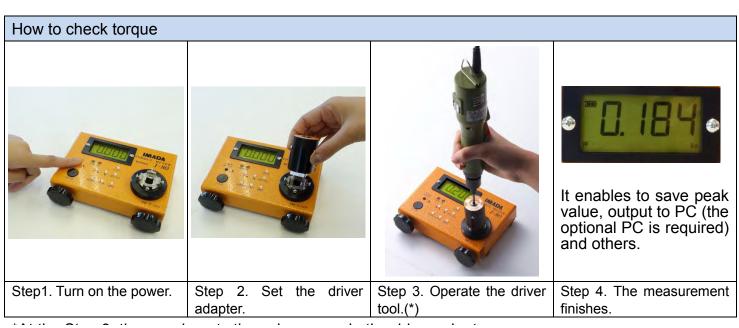# Driver Torque Meter I-8/I-80

> **Measure torque (rotating force) for motor screw driver and torque driver.**
> **It is suitable for daily torque maintenance with simple operations.**
> **The data output (serial communication) is possible.**

How to check torque

			It enables to save peak value, output to PC (the optional PC is required) and others.
Step1. Turn on the power.	Step 2. Set the driver adapter.	Step 3. Operate the driver tool.(*)	Step 4. The measurement finishes.

*At the Step 3, the continuous operation is recommended. However, by the

[Specification]

Model	I - 8	I - 80
Measuring range*1	0.20~78.60 cN-m	0.020~7.860 N-m
	0.020~8.000 kgf-cm	0.20~80.00 kgf-cm
	0.020~6.970 lbf-in	0.20~69.70 N-m
		2.0~786.0 cN-m
Accuracy	+/- 0.5% (reading value) or +/-3digit in less than 499 digit.	
Display	4 digits LCD display	
Measuring direction	CW-CCW (Right turn /Left turn)	
Measuring mode	P-P(Peak-hold), T-R(Track), P-D(Peak-down),C(real time data output)	
Upper/Lower value setting	Upper/ Lower value are able to be set in the measuring range.	
Pass-fail decision	Pass/Fail can be check in the measuring range.(P-P mode) GOOD (Pass)…Green lights, NG(Fail)…Red blinks	
Max./ Min./Ave. display	**Display stored Max. / Min. /Ave. / Number of measuring values.**	
Real time data output	Output applied torque approx. 1/180 sec each.	
Internal memory	800 data	
Output data	ASCII (baud rate 19200 bps)	
Auto zero reset function	Automatic clear value function in each 0.1~3.0 sec (The setting is possible from 0.5 sec each). Manual zero reset setting is at 0.0 sec.	
Zero Reset function	Auto or Manual (only pressing the button.)	
Battery	Ni-Cd 1.2v×5 cell(700mAh) 300 times	
Auto power-off	Auto power-off in 10 minutes with no operation.	
Charging time/ Usable time	Approx.3 hours/ Approx. 12 hours continuous use after full charge.	
Socket joint part (Detecting parts shape)	Square 20 mm / Square 9.5 mm	
Included items (1 each)	Driver adapter OW-025/OW-10	Driver adapter OW-20/OW-60
	Attaché case, battery charger, inspection certificate (*2), calibration certification (*2), traceability system diagram(*2).	

OW-20   OW-60

*This product is NOT suitable for impact tools.

*1 It is only approved for the international model. The Japanese model is different range.

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[Specification for Driver adapter]

	OW-025	OW-10	OW-20	OW-60
Range	Max. 0.25N-m	Max. 1.0N-m	Max. 2.0N-m	Max. 6.0N-m
Mechanical life	10,000 times	8,000 times	5,000 times	5,000 times
Bit joint part	M2.6+Pan head screw	M3.0+Pan head screw	M4.0+Pan head screw	M6.0+Panhead screw
Body dimension	φ28×44	φ32×51	φ32×51	φ32×69

*In the bit joint part, the user inserts their using screw.

*The adapters cannot be used for a manual torque driver. The optional driver adapter is required.
    Please contact us if you need. (+81-(0)532-33-3288 IMADA CO.,LTD.)

[Output data]
    Output data is into ASCII by USB cable (Type B).

    Specification of Data output

Data bit length	Start bit 1+ Data bit 8 + Stop bit 2 +no parity		
Beau rate	19200bps	Connector shape	USB(Type B)

There are 2 types of the data format.

1. The data format of measuring/ average value output.

(Upper column: Meaning of the hexadecimal number in the lower column.

  Lower column: Hexadecimal numbers approved ASCII code.)

CAN	*	SO	Space	Sign	Measuring value	Space	SI	Unit	CR
18	○○○	OE	20	CW: + CCW: -	○○○○○	20	OF	○○○○○○	OD
21 data is output at once.									

2. The data format of the real time mode output.

(Upper column: Meaning of the hexadecimal number in the lower column.

  Lower column: Hexadecimal numbers approved ASCII code.)

CAN	Sign	Measuring value	CR
18	CW: + CCW:-	○○○○○	OD
8 data is output at once.			

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Data Contents

CAN   : Cancel

*   : When the measuring value output

    The data number is displayed at memory data output (e.g. The data No.1 is displayed "001").

    "Space" is output at "Clear".

    : When the average value output

    " N "…Data number, "MAX"…Maximum value, "MIN"…Minimum value, " m "… Average value

    (" N " and " m " are displayed in the center.)

SO   : Select double-width printing

±   : Sign + at CW/ Sign – at CCW

Measuring value: Including decimal point.   e.g)1 0 . 0 0 → 10.00

SI   : Cancel double-width printing

Unit   : When the data quantity is less than unit number quantity such as N-m, there are spaces after unit letters.

    e.g) N -m → N-m   (k g f - c m → kgf-cm)

CR   : Carriage return

[Cautions]

- The contents may be changed without previous notice.

- All of products are designed for measurement purpose only.

- Do not copy and use this content without authority.

- Please note if you add load over capacity, its sensor would be broken down.

- Please note that the capacity is dependent on the displayed unit. Please contact us for details.