





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

| | | | |
|--|---|--|--|
|  |  |  |  <p>It enables to save peak value, output to PC (the optional PC is required) and others.</p> |
| 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 user inserts the using screw in the driver adapter.

[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). | |
| | <div><div> OW-20</div><div> OW-60</div><div></div></div> | |

*This product is NOT suitable for impact tools.

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

*2 All documents are written in English.

[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 | ooo | OE | 20 | CW: + CCW: - | ooooo | 20 | OF | oooooo | 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:- | ooooo | OD |
| 8 data is output at once. | | | |

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.