# Digital Torque Wrench Tester

**DOTE4-G/-MD2**

Ideal for using torque wrench calibration  
Multicolor LED shows judgment status in three different colors

- Uniform loading device enhances the repeatability & accuracy
- Models available to cover a torque range of 2 to 1000N・m
- Units are selectable, cN・m/N・m/Kgf・cm/Kgf・m/lbf・in/lbf・ft
- Measurement data can be output by RS232C or USB

Connecting cable is sold separately.

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### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Size (mm)</th>
<th>Accuracy (±% +1 digit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTE100N4-G</td>
<td></td>
<td>296</td>
<td>±1% +1 digit</td>
</tr>
<tr>
<td>DOTE50N4-G</td>
<td></td>
<td>297</td>
<td>±1% +1 digit</td>
</tr>
<tr>
<td>DOTE20N4-G</td>
<td></td>
<td>298</td>
<td>±1% +1 digit</td>
</tr>
<tr>
<td>DOTE1000N4-G</td>
<td></td>
<td>287</td>
<td>±1% +1 digit</td>
</tr>
<tr>
<td>DOTE500N4-G</td>
<td></td>
<td>285</td>
<td>±1% +1 digit</td>
</tr>
<tr>
<td>DOTE200N4-G</td>
<td></td>
<td>299</td>
<td>±1% +1 digit</td>
</tr>
</tbody>
</table>

### Accessories

- **Optional Accessories**
  - Hex Adapter
  - Motor Drive
  - Calibration Kit
  - Printer Connecting Cable
  - Pole Wheel Handle
  - Thermal line dot printer
  - Roll paper

### motor Drive

<table>
<thead>
<tr>
<th>Max. Effective Length L'</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 H2</td>
</tr>
</tbody>
</table>

### connecting cable

<table>
<thead>
<tr>
<th>Inlet (Outlet Sq. Max. Torque)</th>
</tr>
</thead>
<tbody>
<tr>
<td>756</td>
</tr>
</tbody>
</table>

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**Your Torque Partner**

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**E-mail**

- sales@tohnichi-sh.com
- inquiry@tohnichi.com
- tohnichi-europe@online.be

**URL**

- http://www.tohnichi-sh.com
- http://www.tohnichi.com
- http://www.global-tohnichi.com

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**Product movies are available. Visit Tohnichi TV.**
Digital Torque Wrench Tester
DOTE4-G

Features

- Horizontally fixed uniform loading device ensures consistent and highly accurate, repeatable results
  Using the loading bar puts all the force on the effective length point on the tool for the highest accuracy.
- Newly designed handle is easy to operate even at maximum torque
  Operator turning force remains low throughout the torque range.
- Central display allows the operator to view direct read style torque wrenches easily especially for larger size model
  Operator position allows effortless viewing of direct read tools.

DOTE4-G-MD2: Motor Driven Loading Device

- Suitable for bulk calibrations
- Three step loading speeds to suit the operator
- Includes an inching dial for small adjustments to direct read style torque wrenches
- Motor drive units can be retrofitted to DOTE4-G tester

Complete w/MD Set

<table>
<thead>
<tr>
<th>Model</th>
<th>MD2-SET-S</th>
<th>MD2-SET-L</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTE20N4-G-MD2</td>
<td>DOTE20N4-G-GMD2</td>
<td>DOTE500N4-G-GMD2</td>
</tr>
<tr>
<td>DOTE50N4-G-MD2</td>
<td>DOTE50N4-G-GMD2</td>
<td>DOTE1000N4-G-GMD2</td>
</tr>
<tr>
<td>DOTE100N4-G-MD2</td>
<td>DOTE100N4-G-GMD2</td>
<td></td>
</tr>
<tr>
<td>DOTE200N4-G-MD2</td>
<td>DOTE200N4-G-GMD2</td>
<td></td>
</tr>
<tr>
<td>DOTE500N4-G-MD2</td>
<td>DOTE500N4-G-GMD2</td>
<td></td>
</tr>
<tr>
<td>DOTE1000N4-G-MD2</td>
<td>DOTE1000N4-G-GMD2</td>
<td></td>
</tr>
</tbody>
</table>

Retrofit Motor Driven Unit

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable model</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD2-SET-S</td>
<td>DOTE20N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE50N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE100N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE200N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE500N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE1000N4-G-GMD2</td>
</tr>
<tr>
<td>MD2-SET-L</td>
<td>DOTE500N4-G-GMD2</td>
</tr>
<tr>
<td></td>
<td>DOTE1000N4-G-GMD2</td>
</tr>
</tbody>
</table>

* Power cord will be provided in different shapes depending on each country. Contact Tohnichi.
Data Output Function

- **Enough test result data necessary for tool management can be output**
  Control Number - Torque Value - Unit - Hi/Lo setting pattern - Result - ID number

* default: serial No. of DOTE4-G

- **ExRcv Software**
  Through optional connecting cable, stored data can be output as Microsoft Excel® format.

- **Tohnichi Tool-Management software is available.**
  All measuring result can be uploaded and torque wrenches can be controlled. Please contact Tohnichi for further details.

Certificate under ILAC MRA
Calibration certificate valid by Mutual Recognition Arrangements of ILAC and APLAC is optionally available.

The ILAC Mutual Recognition Arrangement is recognized as meeting international standards of competence, and the certificate under ILAC-MRA provides additional confidence since it certify the torque to be traced directly to National standard.

**Common Specifications**

<table>
<thead>
<tr>
<th>Display</th>
<th>Black mask LCD, White-Red-Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement mode</td>
<td>PEAK/RUN</td>
</tr>
<tr>
<td>Data memory</td>
<td>1000 data</td>
</tr>
<tr>
<td>Hi/Lo setting pattern</td>
<td>10 setting pattern, A to J</td>
</tr>
<tr>
<td>Statistical processing</td>
<td>Number of samples/max./min./mean value</td>
</tr>
<tr>
<td>Zero adjustment</td>
<td>Automatic</td>
</tr>
<tr>
<td>Reset</td>
<td>Manual 0.0/Auto 0.1-5.0 sec.</td>
</tr>
<tr>
<td>Data output</td>
<td>RS232C compliant, USB B type for serial communication</td>
</tr>
<tr>
<td>Operating condition</td>
<td>0-40℃ (No condensation)</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC100-240V 50/60Hz</td>
</tr>
</tbody>
</table>

- **Up to 10 Hi/Lo settings can be programmed for easy retrieval**
Hi/Lo settings can also be programmed remotely through a PC.
With separately prepared barcode reader, Hi/Lo settings can be done by command input.

* **Application Example of Hi/Lo Setting by Barcode Reader**

**Example**
QSP100N4
Command input
Hi, Lo value setting command AT037, 0004
0055.00 0050.00 Hi Lo

**Certificate**
Certificate under Mutual Recognition Arrangements of ILAC and APLAC is optionally available.

- **Motor drive units can be retrofitted to DOTE4-G tester**
- **Optional Tohnichi Tool-Management software is available.**
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### Specifications

#### DOTE20N4-G(-MD2) - 200N4-G(-MD2)  
#### DOTE500N4-G(-MD2), 1000N4-G(-MD2)  

**Dimensions [mm]**

<table>
<thead>
<tr>
<th>Model</th>
<th>L</th>
<th>B</th>
<th>H</th>
<th>L1</th>
<th>B1</th>
<th>B2</th>
<th>H1</th>
<th>H2</th>
<th>Adapter (inlet-outlet)</th>
<th>AC Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOTE20N4-G</td>
<td>506</td>
<td>339</td>
<td>267</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>171</td>
<td>#296 DA3-2 (1/4-3/8)</td>
<td>BA-6</td>
</tr>
<tr>
<td>DOTE500N4-G</td>
<td>1276</td>
<td>710</td>
<td>394</td>
<td>810</td>
<td>518</td>
<td>90</td>
<td>162</td>
<td>238</td>
<td>#297 DA4-3 (3/8-1/2)</td>
<td></td>
</tr>
<tr>
<td>DOTE1000N4-G</td>
<td>1856</td>
<td>775</td>
<td>1200</td>
<td>666</td>
<td>150</td>
<td>-</td>
<td>-</td>
<td>247</td>
<td>#299 DA8-6 (3/4-1”)</td>
<td></td>
</tr>
<tr>
<td>DOTE200N4-G (-MD2)</td>
<td>756</td>
<td>391</td>
<td>269</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>174</td>
<td>#297 DA4-3 (3/8-1/2)</td>
<td></td>
</tr>
<tr>
<td>DOTE500N4-G (-MD2)</td>
<td>1276</td>
<td>710</td>
<td>394</td>
<td>810</td>
<td>518</td>
<td>90</td>
<td>162</td>
<td>238</td>
<td>#298 DA6-4 (1/2-3/4)</td>
<td></td>
</tr>
<tr>
<td>DOTE1000N4-G (-MD2)</td>
<td>1856</td>
<td>775</td>
<td>1200</td>
<td>666</td>
<td>150</td>
<td>-</td>
<td>-</td>
<td>247</td>
<td>#299 DA8-6 (3/4-1”)</td>
<td></td>
</tr>
<tr>
<td>DOTE4-G/MD2 (Digital)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

- **Max. Available effective length [mm]**: 52
- **Weight [kg]**: 58

### Standard Accessories

#### Hex Adapter

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Printer</th>
</tr>
</thead>
<tbody>
<tr>
<td>285</td>
<td>3/8-7-9-9</td>
<td>EPP16M3 Thermal line dot printer</td>
</tr>
<tr>
<td>286</td>
<td>1/2-16-18-21</td>
<td>1408 Roll paper</td>
</tr>
<tr>
<td>287</td>
<td>1/2-17-22-27</td>
<td>382 Printer cable</td>
</tr>
<tr>
<td>288</td>
<td>1/2-19-24-30</td>
<td></td>
</tr>
</tbody>
</table>

#### Optional Accessories

- **Connecting Cable**
  - Model: 383 DOTE4 - PC (D-Sub 9pin)
  - Model: 385 DOTE4 - PC (USB B type)
- **Battery Pack**
  - Model: BP-100-4

#### Calibration Kit

- **Model**: DOTECL-S1, DOTECL-S2, DOTECL-S3, DOTECL-L1, DOTECL-L2, DOTECL-L3, DOTECL-L4
- **Applicable Models**: DOTE4-G/-MD2, DOTE20N4-G/-MD2, DOTE50N4-G/-MD2, DOTE100N4-G/-MD2, DOTE200N4-G/-MD2, DOTE500N4-G/-MD2, DOTE1000N4-G/-MD2

### Digital Torque Wrench Tester

- **Motor Drive**
- **Inlet Drive**
- **Motor Drive**
- **Inlet Drive**
- **Motor Drive**
- **Inlet Drive**
- **Motor Drive**
- **Inlet Drive**

**Accuracy +/-1%+1digit**

- **Torque Range**: 2 to 1000 N・m
- **Units**: cN・m/N・m/Kgf・cm/Kgf・m/lbf・in/lbf・ft

**Measurement Data**

- **Output**: RS232C or USB
- **Cable**: Sold separately.

**Other Features**

- **Multicolor LED shows judgment status in three different colors**
- **Ideal for using torque wrench calibration**
- **Uniform loading device enhances the repeatability & accuracy**
- **Models available to cover a torque range of 2 to 1000 N・m**

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