



DIGITAL TACHOMETER TM-7 Series

TAKE MEASUREMENTS with EASE through LASER!

- Through adoption of laser technology non-contact measurement performance has improved. (TM-7000/TM-7010/TM-7010E)
 - Highly visible laser makes measurement adjustments easy.
 - Measuring distance up to 1 m from a reflective target.
 - 6.0 - 99999.9 rev/min measuring range and 0.1 rev/min Resolution
- Multifunctional model (TM-7010/TM-7010E)
 - Prescale measurement
 - 25 items and MIN/MAX memory
 - Multi-unit selection
- Contact measurement with Contact adaptor (TM-7000/TM-7010/TM-7010E + TM-7013)
 - Rotational Speed measurement and Linear / Surface Speed measurement
- The model for contact measurement only is released. (TM-7020)
 - 1.0 - 6000.0 rev/min measuring range and lowcost type.
- In conformance to CE and RoHS

TM-7000
(Basic laser type) ▼



Accessories
Reflective tape, 10 pcs.

TM-7010/TM-7010E
(Advanced laser type) ▼



Accessories
Reflective tape, 10 pcs.

Blue
backlight
LCD

TM-7020
(Contact type) ▼



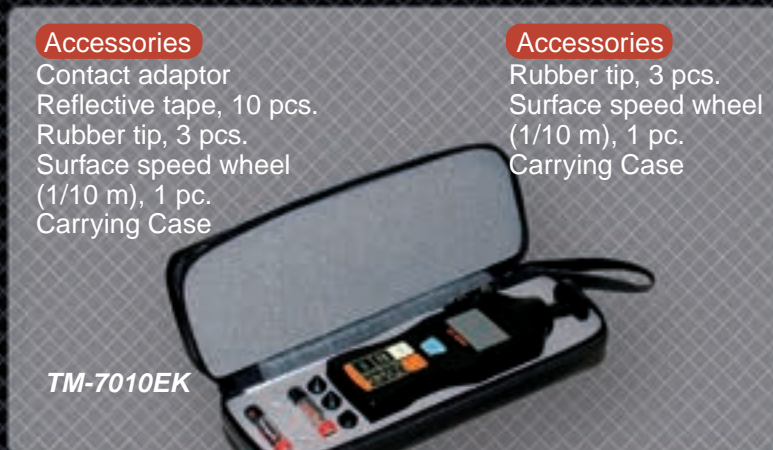
Accessories
Rubber tip, 3 pcs.
Surface speed wheel
(1/10 m), 1 pc.

TM-7013 for TM-7000 TM-7010
TM-7010E
(Contact adaptor) ▼



Accessories
Rubber tip, 3 pcs.
Surface speed wheel
(1/10 m), 1 pc.

TM-7000K
TM-7010K/TM-7010EK
(Kit types) ▼



Accessories
Contact adaptor
Reflective tape, 10 pcs.
Rubber tip, 3 pcs.
Surface speed wheel
(1/10 m), 1 pc.
Carrying Case

TM-7010EK

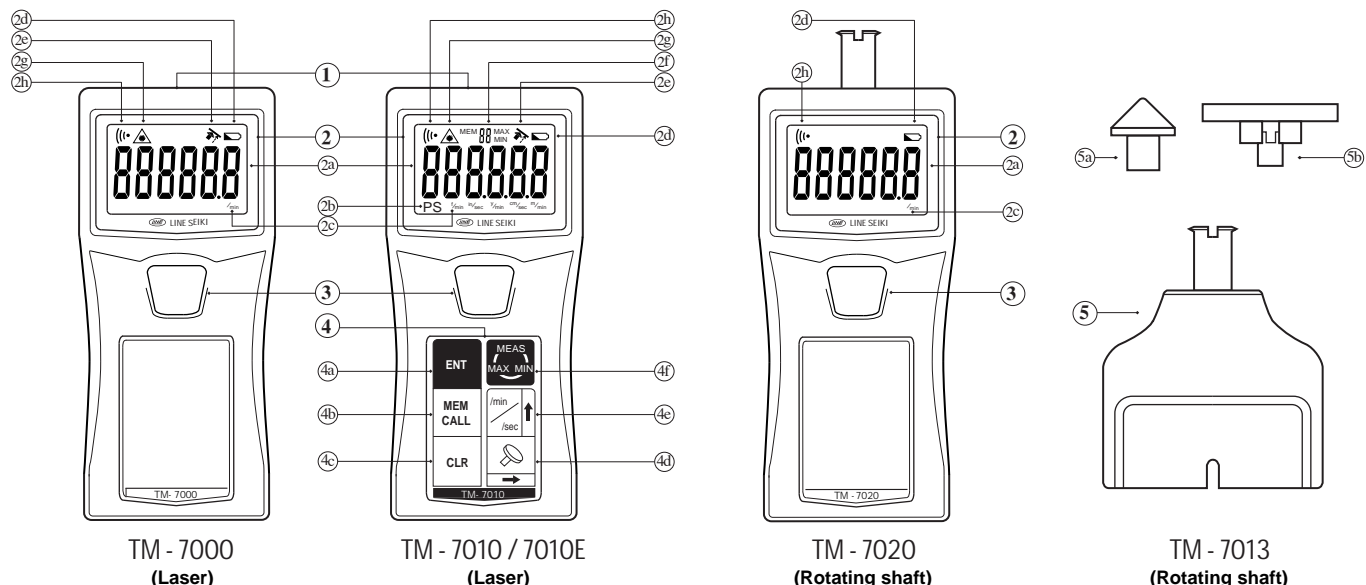
TM-7020K
(Kit type) ▼

Accessories
Rubber tip, 3 pcs.
Surface speed wheel
(1/10 m), 1 pc.
Carrying Case

★ Surface speed wheel (1/10 y) is optional

LINE SEIKI

COMPONENTS



- | | | | | |
|-------------------------------|------------------------------------|----------------------|--|------------------------|
| ① Photoelectric part | ②a Low-battery indicator | ③ Measurement button | ④d Linear/Surface Speed key (Unit Selection key) | ⑤ Contact adaptor |
| ② Displays and indicators | ②b Contact measurement indicator | ④ Key switches | ④a Enter key | ⑤a Rubber tip |
| ②a Measurement display | ②f Memory number & MAX-MIN display | ④b Memory Call key | ④c Rotational Speed key (Unit Selection key) | ⑤b Surface speed wheel |
| ②b Prescale setting indicator | ②g Laser On indicator | ④c Clear key | ④f Measurement mode key | |
| ②c Unit display | ②h On target indicator | | | |

SPECIFICATIONS (MAIN UNIT)

| Model | TM - 7000 | TM - 7010 / 7010E | TM - 7020 |
|---|---|--|---|
| Measuring Range (Non contact) | 6.0 - 99999.9r/min | 6.0 - 99999.9r/min 0.10 - 1666.66r/sec | — |
| Measuring Range (TM - 7000/TM - 7010 / TM - 7010E with contact adaptor) | 6.0 - 15000.0r/min | 6.0 - 15000.0 r/min 0.10 - 250.00 r/sec 0.60 - 1500.00 m/min 1.00 - 2500.00 cm/sec 0.65 - 1640.41 y/min ★ 0.39 - 984.25 in/sec ★ 1.9 - 4921.25 f/min ★ | 0.1 - 99999.9r/min 0.01 - 9999.99r/sec |
| Resolution | 0.1 r/min | 0.1 r/min-f/min, others 0.01 | 0.1 r/min |
| Accuracy | ±0.01% ±1 digit | 0.01% ±1 digit (r/min-m/min) 0.05% ±1 digit (Other units including conversion accuracy) | ±0.01% ±1 digit |
| Sampling Time | 1.0-10.0 seconds (1.0-2.0 seconds, with contact adaptor) | | 1.0-2.0 seconds |
| Display | Measurement Display : 6 digits, 7 segment LCD (except TM - 7020) Low-battery : mark Laser On : mark On target : mark Contact Measurement : mark | | |
| | Display unit : /min | Display unit : /min, /sec, m/min cm/sec, y/min ★, in/sec ★, f/min ★ Memory display : MEM1-25, MAX, MIN Prescale Mode Indicator : PS | Display unit : /min |
| Prescale Range | — | 0.001 - 999.999 | — |
| Auto Power-off | After 3 minutes from last measurement or key operation | | |
| Data Hold Time | Measurement data : until the next data is defined | | |
| | — | Memory data : same as battery life | — |
| Measuring Method | Non-contact measurement : using main unit (with reflective tape) Contact type measurement : using contact adaptor (with rubber tip or surface speed wheel) | | Contact type measurement : using main unit (with rubber tip or surface speed wheel) |
| Optical System (Except TM - 7020) | Light Source : Laser, Class 2 Operating Range : 50 - 1000 mm, ±40 degrees Wavelength : 650 nm, CW Power Output : Max. 1 mW | | |
| Power Supply | 4 pcs. of AAA alkaline battery | | |
| Battery Life with continuous measurement | approx. 30 hours | approx. 15 hours | approx. 30 hours |
| Backlight | — | Blue (Auto-Backlight Off after 10 seconds of inactivity) | — |
| Temperature | Operating Temp. 5 - 40°C Storage Temp. -10 - +60°C (Non-Freezing) | | |
| Operating Humidity | 35 - 85%RH (Non-Condensing) | | |
| Dimension/Weight (Battery Included) | 125(H) x 58(W) x 27.4(D)mm / 140g | | 144(H) x 58(W) x 36(D)mm / 170g |

★ These measuring units are only available in TM-7010E

MODELS

| | | |
|-------------|--|--|
| TM - 7000 | TM-7000 main unit | Reflective tape, 10 pcs. |
| TM - 7010 | TM-7010 main unit | AAA alkaline battery, 4 pcs. Instruction manual |
| TM - 7010E | TM-7010E main unit | |
| TM - 7000K | TM-7000 main unit + Contact adaptor | Reflective tape, 10 pcs. Rubber tip, 3 pcs. |
| TM - 7010K | TM-7010 main unit + Contact adaptor | Surface speed wheel (1/10 m) 1 pc. AAA alkaline battery, 4 pcs. Instruction manual |
| TM - 7010EK | TM-7010E main unit + Contact adaptor | + Carrying Case |
| TM - 7013 | Contact adaptor | Rubber tip, 3 pcs. Surface speed wheel (1/10 m), 1 pc. |
| TM - 7020 | TM-7020 Main Unit, Rubber Tip, 3 pcs. Surface Speed Wheel (1/10m), 1 pc. AAA Alkaline Battery, 4 pcs. Instruction Manual | |
| TM - 7020K | TM-7020 Main Unit, Rubber Tip, 3 pcs. Surface Speed Wheel (1/10m), 1 pc. AAA Alkaline Battery, 4 pcs. Instruction Manual + Carrying Case | |

OPTIONS

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|--------------|--|
| ZTM051 | Reflective Tape, 10 pcs. |
| ZTM004 - SET | Rubber Tip, 3 pcs. |
| ZM4052 | Surface Speed Wheel (1/10 m), 1 pc. |
| ZM4053 | Surface speed wheel (1/10 y), 1 pc. |
| C - 7000 | Carrying Case (TM-7000 / 7010 / 7010E) |
| C - 7020 | Carrying Case (TM-7020) |



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