



# 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) ▼

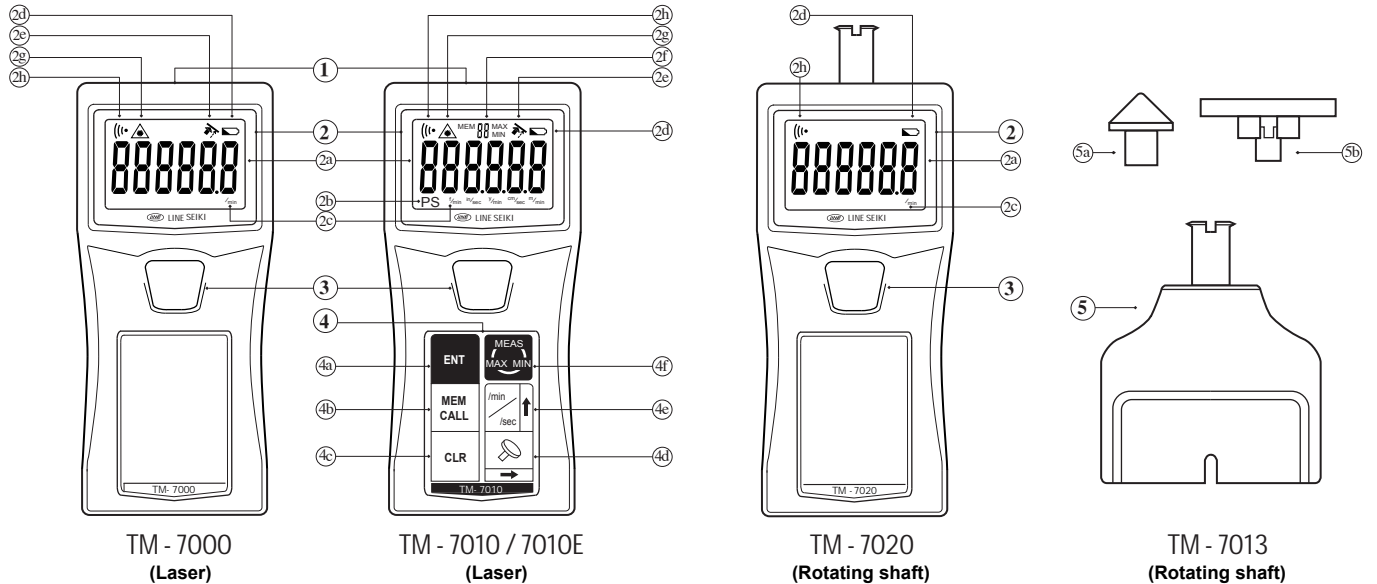
**Accessories**  
Rubber tip, 3 pcs.  
Surface speed wheel  
(1/10 m), 1 pc.  
Carrying Case

★ 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)×58(W)×27.4(D)mm / 140g		144(H)×58(W)×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

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)



# LINE SEIKI CO., LTD.

Address: 3-7 Chuo-cho, 2-Chome Meguro-ku,

□ Tokyo 152-0001 Japan

Contact □ Tel : +81-3-37165151

□ Fax : +81-3-37104552

E-mail □ : webtrade@line.co.jp

Web □ : http://www.line-seiki.com

This catalog is last revised on August. 31, 2010.  
Specifications are subject to change without prior notice.  
All Rights Reserved, Copyright ©2010, LINE SEIKI CO., LTD.