

# TM-4100 TM-4100D

## Tacho Meter



- Large LCD 6 digits with backlit.
- Measuring by the output of red visible-spectrum light.
- Measurement distance: 40~500mm.
- Memory of 200 data.
- USB datalogger up to 30,000 data (TM-4100D).

- Auto-range
- Average
- Max/Min.
- Auto Power Saver
- Hold.
- Buzzer (on/off).

### SPECIFICATION:

Models:	TM-4100	TM-4100D (USB Datalogger)
Display	6 digits backlit LCD	
Range switching	Automatic	
Detection distance	Non-contact, 40mm to 500mm (1.58" to 19.7")	
Measurement method	Output the red visible-spectrum light containing the signal to the tape or plate and receiving the signal from the reflective light.	
Measuring indicator	The LCD displays "RING" with a buzzer sound ( or off).	
Resolution	Over 10, 000 count, <u>AVG "ON"</u> :+/-2 dgt.; <u>AVG "OFF"</u> :+/-20 dgt.	
Sampling rate	0.5 to 10 times/sec	
Operating Temp./Humidity	0 ~ 40° C; 25% to 75 % RH.	
Storage Temp./ Humidity	-10 ~ 60° C; 0% to 80% RH.	
Memory capacity	200 data sets	( <b>TM-4100D</b> ) 200data sets in memory & USB datalogger: 30,000 data sets.
Power Supply	9V battery x1.	
Maximum rated power	0.5VA.	
Battery life	About 30 hours (buzzer off).	
Dimensions	Approx. 186mm x 76mm x 36mm (L x W x H).	
Weight	Approx.200g .	
Accessories	Battery x1, Carrying case x1, Reflective tape x1 sheet, USB Mini (4P) cable x1.  4100K : <b>Optional tool kit</b> for contact measurement.	

**Rotational speed measurement:**

MODE	R A N G	Contactless measurement		Contact measurement	
		AVG=ON	AVG=OFF	AVG=ON	AVG=OFF
Rotation speed measurement (r/m)	1	30.00 to 199.99	-	15.00 to 199.99	-
	2	200.0 to 1999.9	300.0 to 1999.0	200.0 to 1999.9	150.0 to 1999.0
	3	2000 to 19999	2000 to 19990	2000 to 19999	2000 to 19990
	4	20000 to 99990	20000 to 99990	-	-
Rotational speed measurement (r/s)	1	0.5000 to 1.9999	-	0.2500 to 1.9999	-
	2	2.000 to 19.999	5.000 to 19.990	2.000 to 19.999	2.500 to 19.990
	3	20.00 to 199.99	20.00 to 199.90	20.00 to 199.99	20.00 to 199.90
	4	200.0 to 1600.0	200.0 to 1600.0	200.0 to 333.0	200.0 to 333.0
Period Measurement (ms)	1	0.6000 to 1.9999	0.6000 to 1.9990	-	-
	2	2.000 to 19.999	2.000 to 19.990	3.000 to 19.999	3.000 to 19.990
	3	20.00 to 199.99	20.00 to 199.90	20.00 to 199.909	20.00 to 19.90
	4	200.0 to 1999.9	-	200.0 to 3999.9	200.0 to 399.0
Count Measurement (count)		0 to 999999 (Input conditions Up to rotational speed measurement upper limit)			

**Circumferential speed measurement:**

MODE	Range	Contact measurement	
		AVG=ON	AVG=OFF
Circumferential measurement (m/min)	1	1.500 to 19.999	-
	2	20.00 to 199.99	15.00 to 199.90
	3	200.0 to 1999.9	200.0 to 1999.0
Circumferential measurement (m/s)	1	0.0250 to 1.9999	0.2500 to 1.9990
	2	2.000 to 19.999	2.000 to 19.990
	3	20.00 to 33.30	20.00 to 33.30

Accuracy	AVG=ON	AVG=OFF
Up to 9.999 counts	±1dgt.	±10dgt.
10.000 counts or more	±2dgt.	±20dgt.
20.000 count or more (r/min mode only)	±20dgt.	±100dgt.
Period measurement only	±0.5%rdg. Is added to above-mentioned accuracy.	

