

DIGITAL TACHOMETERS

MEASUREMENT OF ROTATION SPEED, LINEAR SPEED AND LENGTH



Simple operation, strong, compact & portable

- Available in contact style, which requires direct contact with the object to be measured, or non-contact which allows measuring from a distance. (DT-200LR Series combine non-contact and contact in one unit with adapter)
- Wide measurement range from low to high rotation speeds.
- Units can be selected according to the measurement type, such as the number of rotations, speed, and length. (rpm, cm/s, m/min, m, km, etc.)
- Available in two types of displays: LCD with large digits for easy viewing and LED which enables clear viewing in dark locations.
- Memory function records various data such as, maximum, minimum and final measurement values.
- Housing is constructed of tough, die-cast aluminum.
- Energy efficient electronics provides extended hours of continuous operation with two standard AA batteries.

DT-105A

- Contact type
- LCD



DT-107A

- Contact type
- LED (light-emitting diode) display



DT-205LR

- Non-contact type
- LCD



DT-207LR

- Non-contact type
- LED (light-emitting diode) display

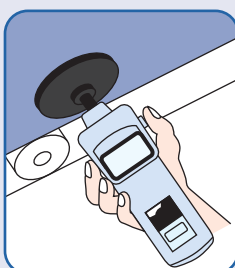


Applications



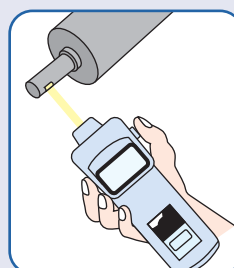
Contact directly on the rotating shaft of the object to be measured.

Measure number of rotations on motor rotating shafts.



Attach the wheel contact to measure speed and/or length.

Speed measurement of conveyor belts



Expose reflection tape attached on object to laser beam to obtain readings.

Measure number of rotations on motor rotating shafts.

Standard accessories



Conical contact

Used when measuring a dented object.
(Not included with the PH-200L)



Funnel contact

Used when measuring a sharp object.
(Not included with the PH-200L)



Extension bar

Used when extending the contact.
(Included with the DT Series only)



Type-6 wheel

Used for measurement of length and speed.
(Not included with the PH-200L)



Type-12 wheel optional

Used for measurement of length and speed.
This is useful when measuring an object that rotates at a high speed.

Our extended line of products gives you more selection options to suit your application.

The non-contact type can be used to measure the number of rotations of a distantly positioned object using the high-precision laser beam.

- Available in contact style, which requires direct contact with the object to be measured, or non-contact which allows measuring from a distance. (DT-200PH can be used as contact type with included adapter)
- Wide measurement range from low to high rotation speeds.
- Units can be selected according to the measurement type, such as the number of rotations, speed, and length. (rpm, cm/s, m/min, m, km, etc.)
- Easy to read 5-digit display with 5 mm font height.
- Memory function records various data such as, maximum, minimum and final measurement values.
- Compact, resin housing makes units easy to carry.

PH-100A

- Contact type



PH-200L

- Non-contact type
- Without contact adapter



PH-200LC

- Non-contact type
- With contact adapter



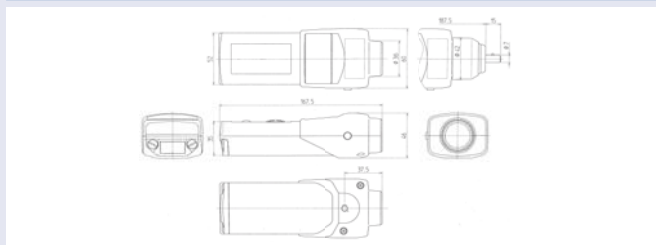
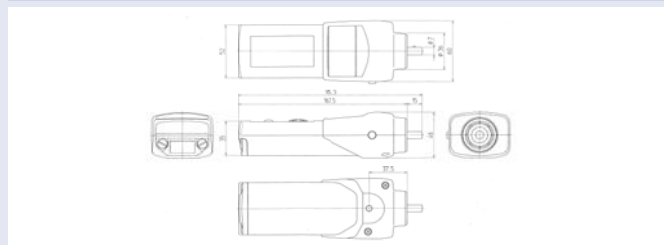
Dimensions

DT-105A / DT-107A

(mm)

DT-205LR / DT-207LR

(mm)

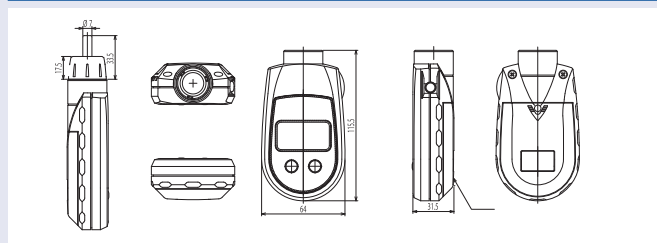
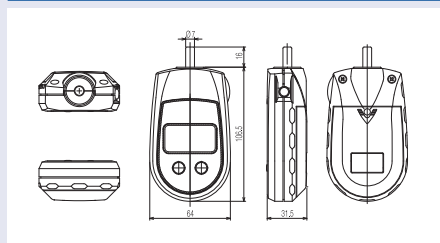


PH-100A

(mm)

PH-200L / PH-200LC

(mm)



Specifications

Model	DT-105A	DT-107A	DT-205LR	DT-207LR
Display Range	0.10 to 25,000 rpm with floating decimal		6 to 99,999 rpm	
Accuracy	±0.06 rpm : 0.10 to 999.99 rpm ±0.6 rpm : 1,000 to 9,999.9 rpm ±0.006% of reading ±1 digit (or ±2 rpm max.) : 10,000 to 25,000 rpm		±1 rpm : 6 to 8,300 rpm ±2 rpm : 8,300 to 25,000 rpm ±0.006% of reading ±1 digit (or ±6 rpm max.) : 25,000 to 99,999 rpm	
Display	LCD 5 digit 12mm high	LED 5 digit 10mm high	LCD 5 digit 12mm high	LED 5 digit 10mm high
Measuring Units	Revolutions : rph, rpm Feet : fpm, fph Miles : mph Yards : ypm, yph Inches : ipm Meters : mph, mpm Length : cm, m, inches, feet, yards Total revolutions : ev		rpm (on contact using adapter, included) For ypm, mpm, fpm, ipm and Length: yrd, m, FT and IN use 6" cir. wheel with contact adapter	
Measuring Distance	—		1.5m maximum	
Memory System	13 readings are stored in memory and retained for 5 minutes (last, max., min. and 10 extra measurements)			
Detection	Optical coupler . 60 pulses/rev		Laser diode	
Over Range Indicator	Flashing numerals			
Update Time	1 second (typical)			
Batteries Included	Size: 2 AA 1.5V			
	Life: Approx. 65 hrs	Life: Approx. 40 hrs	Life: Approx. 40 hrs	Life: Approx. 25 hrs
Low Voltage Indicator	Flashing "LO BAT" display	"B" display	Flashing "LO BAT" display	"B" display
Operating Temperature	32° to 113°F (0° to 45°C)			
Construction	Die-cast aluminum housing			
Dimensions	185 mm x 60 mm x 46 mm		167 mm x 60 mm x 46 mm	
Weight	400g		365g	
Warranty	1 year			
Standard accessories	cone adapter, Funnel adapter, Extension shaft carrying case, master wheel (6" cir.)		Reflective tape, cone adapter, Funnel adapter, Extension shaft carrying case, master wheel (6" cir.) and contact adapter	

			PH-100A	PH-200L	PH-200LC
Display			5 digit 12 mm height LCD		
Rotation speed	Non-contact	(rpm)	—	6.0 - 99,999	
	Contact	(rpm)	1.0 - 25,000	—	6.0 - 99,999
Surface Speed (Using 6" Wheel)	Contact	(m/min)	0.1 - 3,809.8	—	1.0 - 3,809.8
		(yards/min)	0.1 - 4,166.4	—	1.0 - 4,166.4
		(inch/min)	3 - 99,999	—	36 - 99,999
		(feet/min)	0.2 - 12,499	—	3.0 - 12,499
		(m)	0.01 - 99,999	—	0.2 - 99,999
Length (Using 6" Wheel)	Contact	(yards)	0.01 - 99,999	—	0.2 - 99,999
		(feet)	0.1 - 99,999	—	0.5 - 99,999
		(inch)	1 - 99,999	—	—
		(rev)	0.1 - 99,999	—	1 - 99,999
Total number of revolutions			0.1 - 99,999	—	1 - 99,999
Measuring Accuracy		Revolution	1.0 - 599.9 rpm: ±1 rpm, 600 - 25,000 rpm: ±0.006% and ±0.5 digit	6.0 - 599.9 rpm: ±1 rpm 600 - 99,999 rpm: ±0.006% and ±0.5 digit	
		Surface Speed, Length	0.4% and ±1 digit	—	0.4% and ±1 digit
Memory function			14 readings are stored in memory and retained for 5 minutes		
			(Last, Max., Min., Average, and 10 selectable measurements)		
Update Time			1 second		
Detection			Optical coupler, 20 pulses per revolution	Laser diode	
Auto POWER Off function			5 minutes		
Batteries Included			3 AA 1.5V		
Low Battery Indicator			Flashing "LO BAT" display		
Over Range Indicator			Flashing "OVR" display		
Operating Temperature			0 - 45°C		
Construction			ABS resin		
Outside dimensions			122.5 mm L x 64 mm W x 31.5 mm H	115.5 mm Lx 64 mmW x 31.5 mmH (main unit), Overall length (When a contact adapter is installed): 149 mm	
Weight			0.37 lb (170 g)(including batteries)	Main unit: 0.35lb 160 g (including batteries) Contact adapter: 0.11lb 50 g	
Accessories			Carrying Case, Cone Adapter, Funnel Adapter, Master Wheel (6" cir.),Certificate of calibration, Operation Instructions	Carrying Case,[Cone Adapter, Funnel Adapter, Master Wheel (6" cir.), Contact adapter](200LC only), 35 reflective tabs, Certificate of calibration, Operation Instructions	

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