

DT-100A Contact Tachometers

The Series DT-100A Tachometer with micro-processor technology has heralded a superior standard in tachometer accuracy and capabilities for measuring and recording speeds of rotational, linear and surface plus total length. Offering unprecedented confidence, the DT-100A battery-operated tachometers feature the same rugged, high quality components that have made them the benchmark in the industry. These user-friendly, value-packed units feature memory storage; quick adjustment units knob; length functions; retrieval of last, maximum and minimum values; plus each unit comes standard with a free N.I.S.T. certificate. Units are available with an LCD or vibrant red LED display.

Incorporating the precise technology and user-friendly functions as the DT-100A, the DT-100A-S12 provides an exceptional accuracy in measuring speed and length via its 12" wheel. The larger wheel rotates more slowly than a standard 6" wheel, enabling reliable and safe registration of high speeds.

Employing a non-slip rubber contact surface, the FPM-12-CBL adds safety and accuracy while measuring speeds on elevator governor cables, wire & cable reels, extruded tubing and many other applications.

The FPM-12-KMW, 12" circumference aluminum wheel with knurled edge, aids in usage where wheel slippage may occur and is ideally suited for hot surface temperature applications.



DT-105A

DT-107A

Features

- Outstanding accuracy allows usage in the strictest applications
- Exceptionally rugged die-cast aluminum housing enables usage in the harshest conditions
- Wide field selection of units in both instantaneous rate as well as totalized length satisfies a multitude of user requirements
- 10 memory capacity allows quick retrieval of stored data plus additional last, max. & min. values
- Long-life battery (25-40 hrs. continuous use) eliminates concerns of being down during testing
- Rear threaded inserts provides option to mount to stand or other device
- Available display options of either LCD or vibrant, bright red LED
- CE Mark combined with free N.I.S.T. certificate affirms instrument quality

Shown with
Included 6"
Cir. Wheel



Optional
12" Cir. Wheel



NIDEC-SHIMPO CORPORATION

INSTRUMENTS DIVISION • Phone: (800) 237-7079 • Fax: (630) 924-0342 • www.shimpoinst.com

DT-100A Specifications

Display Range	0.10 - 25,000RPM with floating decimal
Accuracy	±0.06 rpm: 0.10 - 999.9 rpm; ±0.6 rpm: 1,000.0 - 9,999.9 rpm; ±0.006% of reading ±1 digit (±2 rpm max.) 25,000 rpm
Display	DT-105A: 5 digit 0.47" (12 mm) high LED; DT-107A: 5 digit 0.4" (10 mm) high LED
Measuring Units	Revolution: RPH, RPM; Feet: FPH, FPM; Miles: MPH; Yards: YPH, YPM; Inches: IPM; Meters: mPH, mPM; Length: m, cm, inches, feet, yards; Total Revolutions: REV
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.
Update Time	1 second (typical)
Over Range Indicator	Flashing numerals
Power Requirement	2 AA 1.5V batteries (Life: Approx. DT-105A: 65 hrs.; DT-107A: 40 hrs.)
Operating Temperature	32° - 113°F (0° - 45°C)
Construction	Die-cast aluminum housing
Product Weight	0.9 lb (400 g)
Package Weight	Approx. 2 lb (.91 kg)
Approvals	CE
Dimensions	7.2" L x 2.4" W x 1.8"H (182.5 mm x 60 mm x 46 mm)
Warranty	2-Year
Included Accessories	2 cone adapters, funnel adapter, 3½" extension shaft, carrying case, NIST certificate, master wheel (6" cir.)
Options	-S12 Option: Same as DT-100A except 6" circumference wheel replaced with 12" circumference contact wheel

Ordering Details

DT-105A	LCD Contact Tachometer with included 6" contact wheel. Includes NIST certificate.
DT-107A	LED Contact Tachometer with laser sensor and contact adapter for use with included 6" contact wheel. Includes NIST certificate.
* To order optional 12" circumference wheel models, add the below extension codes to models	
-S12	for 12 inch circumference measuring wheel
-12-CBL	for 12 inch circumference cable wheel
-12-KMW	for 12 inch circumference aluminum knurled wheel

Accessories

CONE	1/2 inch cone adapter
CONE-3/4	3/4 inch cone adapter
CONE-1-1/4	1-1/4 inch cone adapter
DT-CARRY100	Carrying case for handheld tachometers
EXT-SHAFT	3.5 inch extension shaft for handheld tachometers
FPM-12	12 inch circumference measuring wheel
FPM-6	6 inch circumference measuring wheel
FPM-12-CBL	12 inch circumference cable wheel
FPM-12-KMW	12 inch circumference aluminum knurled measuring wheel
FPM-6-GV	6 inch circumference grooved measuring wheel
FUNNEL	1/2 inch funnel adapter
NIST-TACH	NIST traceable certificate with data

Included Accessories



Special Wheel Options



12" Cable Wheel



12" Aluminum Wheel

NIDEC-SHIMPO CORPORATION

INSTRUMENTS DIVISION • Phone: (800) 237-7079 • Fax: (630) 924-0342 • www.shimpoinst.com