Manuals+ — User Manuals Simplified.

Shimpo DT-2100 Tachometer With USB Output

Shimpo DT-2100 Tachometer With USB Output Owner's Manual

Contents

ABQINDUSTRIAL
PRECISION. RELIABILITY. QUALITY.

Shimpo DT-2100 Tachometer With USB Output

The Series DT-2100 Data-Logging Tachometer is the most highly advanced tachometer ever developed by Nidec-SHIMPO. Providing an unequaled level of user flexibility, the DT-2100 is the premium tachometer for engineers and maintenance professionals. Aiding the diagnosis of the most difficult machinery measurements with its on-board data-logging, graphing and statistical analysis, the user can examine the results of their testing on site and determine if additional data is required. Data can be downloaded to the optional software to further analyze and diagnose system performance. If simplicity is required, the DT-2100 can accommodate with its selectable display styles allowing results to be viewed in standard numerical, chart, bar graph or gauge modes. Max., Min. and Ave. can be quickly scrolled through in any display mode for additional test feedback. Data recording can be set for single point or continuous logging. Often the user may need to adjust the machinery during testing. Simply mount the DT-2100 on its tripod connection, select continuous logging and adjust machinery as necessary. After the test, you can easily review results on unit or download to the computer. Two people are no longer required to perform a test that one can now conveniently complete. The DT-2100 even allows multiple users to store their programmed settings. There is no need to spend time checking all settings to ensure proper performance.

The DT-2100 Tachometer is 2 units in 1 with the included 6â€ circumference contact adapter utilized in linear rate measurement. Most impressive, the DT-2100 provides convenient switching between non-contact and contact operation with its auto-detect function that instantly recognizes if contact adapter is installed. If the larger 12â€ circumference wheel is desired for detecting finer resolution at higher speeds, simply select in the menu the appropriate wheel and the DT-2100 will properly calculate the sensed speeds.

The DT-2100 possesses many cutting-edge features. One feature that is unique to this instrument is the ability to calculate lengths remotely in non-contact laser operation. This feature adds a level of convenience and capability as often it is dangerous or not possible to take a reading by physical contact. Another very beneficial feature that will alleviate user adjusted calculations after the test is the DT-2100's scaling function. This will benefit those that need a manual override of the data for any of a number of application specific requirements. Whether the scaling makes the values more logical to the user or if there is an impossibility to measure at a desired specific point, but another point of a different scale provides measurement access, this feature produces the desired calculated reading. Another common example where the scaling function is very applicable is when measuring product length where every set amount of distance there is a non-product gap that should be eliminated from the total. The scaling feature factors this gap out to provide the accurate total length at the end of the test. The user can factor this gap out and come up with the accurate length at the end.

PC software for the DT-2100 is available separately. The software provides the user the ability to program the tachometer to their requirements, as well as enables more refined analysis of the data.

Features

- Data storage in selected groups allows testing of multiple machinery without mixing data
- View data and statistics on display or utilize optional software for additional analysis on a PC
- Max., Min., Ave., standard deviation & number of recordings as well as acceleration are calculated and reviewable
- Bright, graphical LED rotatable display with multiple display modes provides testing flexibility in any application indoor or outdoor setting
- Compact and light weight for comfortable handheld testing, or for extended tests mount with threaded insert to tripod or machinery fixture.
- Auto-detect feature instantly identifies if contact adapter is installed, allows rapid changing from contact to non-contact testing.
- Comparator setting enables upper/lower limit threshold icon indicators to appear; provides immediate pass/fail analysis
- Length (distance) measurement function in non-contact mode allows length measuring in applications where making contact with the machinery is difficult and/or dangerous
- Scale adjustment provides ability to override the data in situations where known offsets are required or multiples make more sense to the user.

Specifications

Range	6-99,999 rpm Non-contact 0.8-25,000 rpm Contact
Accuracy	±0.006% of reading ±1 least significant digit
Measuring Units	Speed: rpm, m/min., cm/min., inch/min., ft/min., yds/min., rps, m/ sec, cm/sec, inch/sec, km/hr, mph Distance: cm, m, km, in, ft, yd
Memory	Continuous Mode: 1000 Single Mode: 100 Statistics Mode: 100
Measuring Distance	2" to 13.1' (50 to 4,000 mm)
Display	Graphical Blue Light OLED, reversible
Display Update Time	100 ms, 500 ms, 1 sec, 5 sec
Power Requirement	2 AA 1.5V batteries or USB
Battery Life	Approx: 20 hours with brightness set to 20%
Temperature Limits	32º – 113ºF (0º – 45ºC) Non-Condensing
Construction	Polycarbonate
Dimensions	6.1" x 2.2" x 1.4" (155 x 55 x 35 mm)
Product Weight	5.6 oz (159 g)
Package Weight	1.25 lb (567 g)
Approvals	CE, RoHs
Warranty	1-Year
Included Accessories	2 cone adapters, funnel adapter, 3½" extension shaft, carrying case, master wheel (6" cir.), 2 AA batteries, contact adapter

Ordering Details

DT-2100	Data-Logging, Contact, Non-Contact Laser Tachometer with USB Output, 6" cir. wheel
DT-2100-OP-PCS	PC Software for DT-2100 Tachometer with USB Cable
NIST-TACH	NIST traceable certificate with data

Accessories

DT-2100-OP-CAS	Replacement Contact Adapter for DT-2100 Tachometer
CONE	1/2 inch cone adapter
CONE-3/4	3/4 inch cone adapter
CONE-1-1/4	1-1/4 inch cone adapter
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-6-GV	6 inch circumference grooved measuring wheel
FUNNEL	1/2 inch funnel adapter
FUNNEL-3/4	3/4 inch funnel adapter
TAB	Sheet of thirty five 1/2 inch square reflective tabs
TAPE	1" x 7.75" strip of reflective tape

View of Captured Statistics

View of Graph Mode

DT-2100 Shown with Contact Adapter & Cone

Distributed by: ABQ Industrial LP USA
Tel: +1 281-516-9292 / 888-275-5772
eFax: +1 866-234-0451
Web: https://www.abqindustrial.net
E-mail: info@abqindustrial.net

Documents / Resources

Shimpo DT-2100 Tachometer With USB Output [pdf] Owner's Manual
DT-2100, DT-2100 Tachometer with USB Output, DT-2100 Tachometer, Tachometer, Tachometer with USB Output, USB Output Tachometer

References

- [**User Manual**](#)