

High Speed Optical Laser Hand Tachometer - LED display CT6/LSR/ERP

Applications

This product has been evolved to facilitate the measurement of very high speed small shaft machines, such as dental drilling equipment, gyros, air motors and similar low torque high speed devices.

Key features:

Bright red LED Display • Manual/Autorange modes • Remote sensor input • Last reading hold & re-call • Contact Adaptor fitment • On target & low battery indicators

Function - High speed mode

This product operates without reflective tape under controlled conditions, when using the LN1 adaptor.

There is an integral sensitivity control which requires adjustment to suit the specific application conditions.

Accessories

Remote optical sensors, mounting brackets, Strobe attachment Spares for Contact adaptor Reflective tape.

Laser Optical System

Normal speed applications
Optical Range 50 - 2000mm
Optical angle +/- 80 deg.

High Speed Mode

With LN1 Lens adaptor fitted
Optical Range - nominally 50mm
Target - a non reflective paint or material is required

General Specification

Basic RPM range	3rpm - 99,999 rpm
High speed mode	500,000 rpm +/-10
Resolution	max - 0.001 (auto) +/- 10 rpm HS mode
Sensitivity	Adjustable externally
On Target ind.	Yes
Power	4 x AA batteries supplied
Memory	Last reading recall

Other Measurement ranges

Count mode	0 - 99999 revolutions
Resolution	0.1 metre or 1 rpm
Time accu.	0.01 - 99999 secs
Time int.	0.01 - 99999 secs
Accuracy	0.05% rpm/time

Safety of use

The Laser is classified CLASS II safe for portable use, the user must take care not to stare directly into the Laser Beam, this would have a similar dazzling effect as staring directly into a high power torch light or car headlight at close range!

TTL 5v pulse output facility - For datalogging and triggering purposes in vibration and balancing applications.

Additional on/off switch - To allow continuous measurement where required for data monitoring applications in hands free mode.

Sensitivity control - Necessary for setting the Laser on specific high speed applications when using the LN1 lens.



Order codes	Description
CT6/LSR/ERP	High speed laser Tachometer