Clarke®
INTERNATIONAL

DIGITAL LASER TACHOMETER

MODEL No. CT1

OPERATING INSTRUCTIONS

0702

BATTERY REPLACEMENT

When the batteries need relacement, the symbol 'LO' will appear on the digital display.

To replace the batteries, slide back the cover on thre rear of the unit and remove the spent batteries.

Pay particular attention to polarity when replacing the batteries as incorrect polarity could cause permanent, serious damage to the instrument.

If the instrument is not to be used for some time, it is strongly advised to remove the batteries.

When disposing of this product, do not dispose of with general waste. It must be disposed of according to the laws governing Waste Electrical and Electronic equipment, at a recognised disposal facility.

Thank you for purchasing this CLARKE Digital Laser Tachometer.

Please read this booklet thoroughly. Your Clarke Tachometer will give excellent service if it is used carefully and in accordance with the following advice and recommendations. Never use excessive force and as with all tools, it should be treated with care and respect.

GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase. This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

SPECIFICATIONS

Model No.	**CT1**
Part No.	**4501110**
Measuring Range	**5 - 99,999 RPM**
Resolution	**0.1RPM up to 1000RPM**
	1 RPM above 1000RPM
Accuracy	**±(0.05% + 1 digit)**
Laser Class	**II**
Operating Temperature	**0 - 50°C (32 - 132°F)**
Dimensions	**190x72x32mm**
Sampling Time	**1 sec (over 6RPM)**
Weight	**0.2kg**
Voltage	**6V**
Batteries	**4xAA**

FEATURES

Your Digital Laser Tachometer provides a wide measuring range at high resolution, using a large LCD display.

An exclusive microchip, LSI-circuit and crystal time base provide a highly accurate measurement with a fast measuring time.

The last value Max and Min values are stored in memory and may be recalled by pressing a memory button.

Self adhesive reflectors are provided for the surface of the object to be measured.

The unit is constructed from light, strong, durable components, ensuring long and maintenance free service, and is designed to fit comfortably into the palm of the hand.

A - Operation Button

B - LCD Display

C - Memory Recall Button

D - Target Indicator

MEASURING PROCEDURE

1. RPM Measurement

1.1 Apply the reflecting mark to the surface of the object to be measured.

1.2 With the object rotating, depress the Operation Button and align the visible light beam with the reflecting mark, as it passes the beam.

Check to ensure the 'Target Indicator', on the display, illuminates when the reflector passes through the light beam.

1.3 When the reading stabilises, release the Operation Button.

NOTE:

If the revolutions being measured are very low, i.e. less than 50RPM, it is advisable to stick more reflectors at regular (measured) intervals on the surface of the object.

To obtain a correct reading, simply divide the display reading by the numbers of reflectors.

2. Memory Recall Button

The last measurement, Maximum and Minimum values are stored in memory, that is, the last values before the Operation Button was released. To recall the values, proceed as follows:

3.1 Press the Memory button once. The symbols 'LA' will be displayed along with the LAST VALUE

3.2 Press the Memory Button a second time and the symbols 'UP' will be displayed together with the MAXIMUM VALUE of the last measurement.

3.3 Press the Memory Button a third time and the symbols 'dn' will be displayed together with the MINIMUM VALUE of the last measurement.