



& Tachometers Stroboscopes



Professionally approved products.

Datasheet

Rotaro Handheld Digital Tachometer

RS Stock number **845-9674**



For Contact and Non-Contact Applications

This high quality digital instrument is battery powered and can be used as an optical tachometer for measuring rotational speed, or as a contact instrument for measuring rotational speed, linear speed and distance. The RS Rotaro measures max., min., and average values in both metric and imperial units, displayed on a clear LCD display with a memory function.

Typical applications are for measuring:-

- the speed of rotating equipment such as fans, wheel, shafts, rollers
- the travelling speed of belts and conveyors
- the length of long products such as wire, fibre, steel, wood, etc.
- the speed of travel and length of sheet products such as films, foils and



Specification

Best Accuracy	+/- 0.02%
Optical function	Yes
Maximum operating distance	600mm
Minimum speed	0
Maximum speed	99,999 rpm
Contact function	Yes
Minimum speed	0 rpm
	0.10mmmin ⁻¹
Maximum speed	19,999 rpm
	1999mmmin ⁻¹
Power source	2 x AA
Mains Option	No
Dimensions	170x70x40mm
Weight	250g inc batteries
Minimum operating temperature	0°C
Maximum operating temperature	50°C

Warranty ... 1 year



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Datasheet

Redpoint Handheld Digital Optical Tachometer

RS Stock number **845-9680**



For Non-Contact Applications

This high quality digital instrument is battery powered and can be used for measuring rotational speed without making contact with the target by using a light beam reflected from a pre-fixed marker tape. The RS Redpoint measures max., min., and average values, with a clear LCD display and memory function.

Typical applications are for measuring:-

- the speed of rotating equipment such as fans and wheels whilst operational
- any rotating equipment such as rollers where close access is restricted
- frequency of flashing sources such as fluorescent lights or special equipment

Specification

Best Accuracy	+/- 0.02%
Optical function	Yes
Max. operating distance	600mm
Minimum speed	0
Maximum speed	99,999 rpm
Contact function	No—refer to RS Rotaro or HTM
Power source	2 x AA
Mains Option	No
Dimensions	170x70x40mm
Weight	250g inc batteries
Min. operating temperature	0°C
Max. operating temperature	50°C
Warranty	1 year



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Datasheet

100M/100F Mechanical Tachometers

RS Stock numbers - 100M **845-9687** or 100F **845-9699**



For Contact Applications

The 100M/F tachometers are used to measure linear and rotational speed using the range of contact adaptors supplied, and display them as metric units. Three measuring ranges are available which gives a total range of 10-10,000 rpm . As the 100M/F requires no power source and is not reliant on batteries, it can be used in areas where an electronic instrument may not be suitable. The 100M/F are designed to be used with one hand, and they're encased with a rubber holster for protection and grip.

Typical applications are for measuring:-

- the speed of rotating equipment such as fans and wheels
- any rotating components such as rollers where access is available
- linear speed of conveyors and drive belts
- speed of rope or cable in elevators and winches

Contents

Hard plastic carry case

Mechanical Tachometer

Operating Instructions

Standard Calibration Certificate

1 each: 0.1m wheel, measuring tip, measuring funnel, extension piece

All contact adaptors are available as replacements.

Specification

Best Accuracy	+/- 0.5% full range
Optical function	No
Contact function	Yes
Minimum speed	10rpm or 1m - 5ft/min
Maximum speed	10,000rpm or 1,000m - 5000ft/min
Power source	Not Applicable
Dimensions	155x85x55mm
Weight	250g
Min. operating temperature	0°C
Max. operating temperature	40°C
Warranty	1 year



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Datasheet

100M/100F ATEX Mechanical Tachometers

RS Stock numbers - 100M **845-9703** or 100F **845-9700**



For Contact Applications

The ATEX 100M/F tachometers are specifically approved for use in hazardous areas, and are used to measure linear and rotational speed using the range of contact adaptors supplied, and display them as metric units. Three measuring ranges are available which gives a total range of 10-10,000 rpm (1-1000 m/min). The ATEX 100M/F are designed to be used with one hand, and is encased with a rubber holster for protection and grip.

Typical applications are for measuring:-

- the speed of rotating equipment such as fans and wheels
- any rotating components such as rollers where access is available
- linear speed of conveyors and drive belts
- speed of rope or cable in elevators and winches

Contents

Hard plastic carry case

ATEX Mechanical Tachometer

Operating Instructions

Standard Calibration Certificate

1 each: 0.1m wheel, measuring tip, measuring funnel, extension piece

All contact adaptors are available as replacements.

Specification

Best Accuracy	+/- 0.5% full range
Optical function	No
Contact function	Yes
Minimum speed	10rpm or 1m - 5ft/min
Maximum speed	10,000rpm or 1,000m - 5000ft/min
Power source	Not Applicable
Dimensions	155x85x55mm
Weight	250g
Min. operating temperature	0°C
Max. operating temperature	40°C
Warranty	1 year



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Datasheet

Rolux Xenon Pocket Strobe

RS Stock numbers **845-9712**



This high quality instrument can be used either as portable or mains powered for the measurement of rotational speed as well as carrying out inspections of machinery. The RS Rolux has a fixed flash duration, which combined with the high luminance Xenon light, gives a crisp image even in areas with high ambient lighting. This short flash duration makes it particularly effective with small targets.

Typical applications are for measuring:-

- the speed of rotating equipment such as fans and wheels whilst operational
- any rotating equipment such as rollers where close access is restricted
- inspecting moving machinery for maintenance or to check for wear or damage
- inspecting equipment to identify vibration

Contents

Hard plastic carry case
RS Rolux Stroboscope
Operating Instructions
Standard Calibration Certificate
Trigger Plug
Worldwide charger/mains set

Specification

Best Accuracy	+/- 0.01%
Light source	Xenon
Light Emission	1200Lux
	200mm @ 4500FPM
Flash Duration	<9 µs
Minimum flash rate	30 FPM
Maximum flash rate	12,500 FPM
Power source	Lithium Ion rechargeable pack
Mains Option	Yes
Protection Class	N/A
Dimensions	240x65x40mm
Weight	415g inc battery pack
Minimum operating temperature	0°C
Maximum operating temperature	40°C
Warranty	1 year



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Datasheet

RT Strobe Pocket LED Stroboscope

RS Stock numbers **845-9725**



This high quality digital instrument is battery powered and can be used for measuring rotational speed as well as carrying out inspections of machinery. The LED light provides a powerful beam that can be varied in flash rate from 30 to 300,000 fpm. The RT LED Strobe also has the facility to adjust flash duration to ensure a crisp image, and includes time delay for greater flexibility

Typical applications are for measuring:-

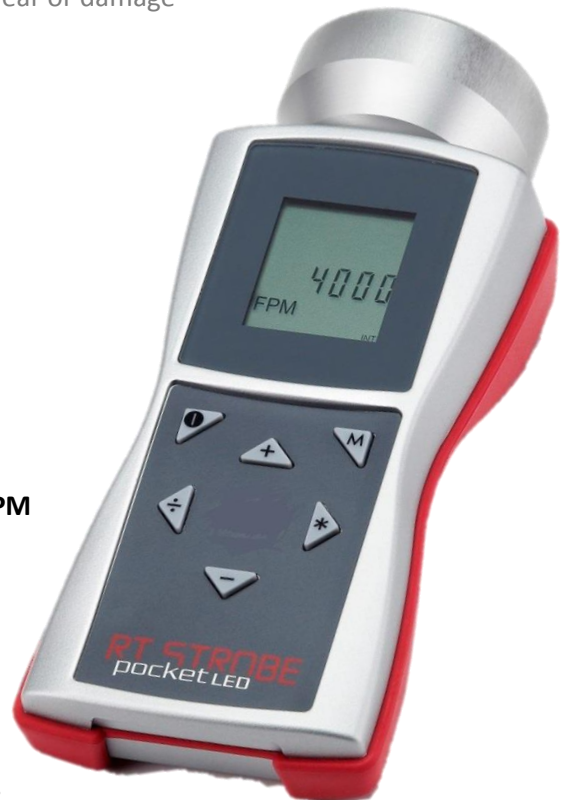
- the speed of rotating equipment such as fans and wheels whilst operational
- any rotating equipment such as rollers where close access is restricted
- inspecting moving machinery for maintenance or to check for wear or damage
- inspecting equipment to identify vibration

Contents

Hard plastic carry case
RS LED Stroboscope
Operating Instructions
Standard Calibration Certificate
6xAA Alkaline Batteries

Specification

Best Accuracy	+/- 0.02%
Light source	LED
Light Emission	4800Lux 300mm @ 6000FPM
Flash Duration	Variable
Minimum flash rate	30 FPM
Maximum flash rate	300,000 FPM
Power source	3 x AA
Mains Option	No
Protection Class	IP65
Dimensions	191x82x60mm
Weight	400g inc batteries
Minimum operating temperature	0°C
Maximum operating temperature	45°C
Warranty	1 year



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Datasheet Accessories

Suitable Accessories and spares for the RS Rolux Stroboscope **845-9712**



845-9788 Replacement Xenon Bulb

A replacement Xenon bulb for RS Rolux Xenon Stroboscope RS 8459712.



845-9790 Mains Battery Charger

A universal mains connector for battery charging and permanent connection to RS Rolux Xenon Stroboscope RS 8459712.

Contents-

Mains connection/transformer

Set of 4 plug connectors to suit most international specifications

Suitable for Rotaro Tachometer **845-9674**



845-9738 Replacement contact adaptor

The replacement adaptor connects to the RS Rotaro for making contact measurement. It simply plugs into the front of the instrument and enables the range of contact adaptors to be used.



845-9781 Welding wire speed adaptor

The welding wire adaptor is for use with the RS Rotaro Handheld Digital Tachometer and is designed to measure the feed speed of welding wire. It is simply plugged into the front of the unit, replacing the standard adaptor, and the wire inserted by opening the jaws. When the welding gun is activated, the wire is pushed through and the speed is shown on the LED display.

This adaptor can help to meet latest EC requirements for quality control in welding procedures by providing a method of measuring the wire speed, as well as for calibration purposes.

Suitable for optical tachometers **845-9674** and **845-9680**



845-9731 Reflective tape for optical tachometers

The reflective tape has an adhesive backing and is used in conjunction with the optical tachometer. A piece of it is fixed to the item that is to be measured, and when the instrument is pointed at it, the light is reflected back to the receiver to generate the reading.

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Datasheet Accessories

Suitable for contact tachometers **845-9674, 845-9687, 845-9699, 845-9700 and 845-9703**



845-9740 Measuring Wheel 0.1m

A hard rubber outer rim mounted on a plastic wheel. Used for contact measurement on flat or curved surfaces for measuring linear speeds or distance. Can be used in conjunction with the extension piece supplied with the original instrument where access is restricted.



845-9738 Measuring Wheel 6in

A hard rubber outer rim mounted on a plastic wheel. Used for contact measurement on flat or curved surfaces for measuring linear speeds or distance. Can be used in conjunction with the extension piece supplied with the original instrument where access is restricted.



845-9750 Measuring Tip

A hard rubber tip mounted on a plastic sleeve. Used for contact measurement on the end of a rotating shaft, or where a fixed central point is available on a larger surface. Can be used in conjunction with the extension piece supplied with the original instrument where access is restricted.



845-9762 Measuring Funnel

A hard rubber tip mounted on a plastic sleeve. Used for contact measurement on the end of a rotating shaft, or where the cone can be fitted onto a spindle. Can be used in conjunction with the extension piece supplied with the original instrument where access is restricted.



845-9778 Measuring Wheel 12in

A hard rubber outer rim mounted on a steel wheel. Specially designed for contact measurement on materials with higher temperatures on flat or curved surfaces for measuring linear speeds or distance.