

ORION® Electronic stopwatches**Application:**

For universal timing using different functions.

- 10 memory slots

Execution:

- Black plastic housing
- LCD display
- Digit increment 1/100

No. 39070:

- Functions: Time per lap, number of laps, split time, fastest/slowest time/average lap time

Technical data:

- Acoustic signal: Yes
- With timing: Yes
- With forward/reverse counting: Yes
- With time indicator: Yes
- With date and weekday indicator: Yes
- Width: 64 mm
- Height: 86 mm



No. 39070



No. 39082

Digit height (mm)	39070... Ident. No.	39082... Ident. No.
6	010	-
11	-	010

Prod. Gr. 301

Sanhart® Large stopwatches**Application:**

For timing when a large display is required.

- Switchable time resolution in 1/10 s or 1/100 min.

Execution:

- Electronic digital stop watch
- Large 2-row LCD display with 8/22 mm digit size
- Stopwatch function with 4 timers
- Loud alarm signal
- Standard time display
- Programmable sequence

Delivery:

With battery (1x 1.5 V, type AA)

Technical data:

- Display area of dial gauge: 999 min., 99/100 min. | 9 hr., 59 min., 59 sec., 1/10 sec.
- Width: 130 mm
- Height: 175 mm
- Depth: 40/95 mm



39092...	Ident. No.	050
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Prod. Gr. 391

Hand-held stroboscope
RT strobe pocket LED**Application:**

determining and monitoring rotation speed or oscillation frequency of rotating or vibrating systems without interrupting the production process. in places that are difficult to access, on particularly delicate systems, and for detecting undesirable oscillation resonances. suitable for inspecting motors, turbines, pumps, ventilators, centrifuges, systems for paper and film manufacturing, vibrating tables, vibrating and oscillating screens.

measurement principle:

the stroboscope works with infinitely adjustable light frequency. for the purposes of the test, the stroboscope is pointed towards the object and the flash frequency is adjusted by actuating the corresponding keys. if the flash frequency of the stroboscope does not concur with the flash frequency of the test object, this object is indicated visually as a stationary image. the frequency indicated on the display corresponds to the rotation speed of the object.

Execution:

- Latest LED technology

- Continuously adjustable light frequency
- High illuminance across the entire frequency range
- High adjustment accuracy and stability
- Adjustable flash duration
- Frequency range 30...300,000 FPM

Delivery:

Stroboscope, batteries 3 x 1.5 V type AA, case

Technical data:

- Error limit (%): 0.02 %
- Width: 95 mm
- Height: 195 mm
- Depth: 50 mm
- IP protection class: IP 65



39355...

Ident. No.

025

Prod. Gr. 392



Electronic hand-held tachometer

Application:

For non-contact and contact (mechanical) rotational speed measurements, as well as contact (mechanical) speed and length measurements

Execution:

- Non-contact measurement using red, modulated light beam and reflective markers
- Mechanical measurement using adapter and attachable contact tips (male taper) or hollow measuring tip (female taper)
- For the speed measurement (peripheral speed or belt speed) as well as length measurement, a measuring wheel is placed on the adapter
- 5 digit LCD display
- Error limit: 0.02% of display value (± 1 digit increment)
- Update time: 1 s
- Measuring distance: optical max. 600 mm (non-contact measurement)

- Memory function: last value measured, maximum value, minimum value, mean
- Shutdown: automatically 30 s after last key press, measured value saved
- Housing: Plastic with holster

Delivery:

Case with basic device, adapter, measuring tip, hollow measuring tip, measuring wheels 0.1 m and 6 inch (cylindrical running surface), extension shaft, 10 reflective markers, 2 x 1.5 V AA batteries, calibration certificate, operating instructions

Technical data:

- Max. rotation speed of measuring range (contact): 19999 U/min(rpm)
- Max. speed measurement of measuring range: 1999 m/min
- Max. measurement distance: 600 mm
- Error limit (%): 0.02 %



Electronic hand-held tachometer	39330...		Ident. No.	050
Accessories, rev meter	39320...	Reflective tape	Ident. No.	502
	39330...	Reflective markers	Ident. No.	055

Prod. Gr. 392

Spare parts and more accessories available upon request.

ORION® Electronic hand-held tachometer

Application:

For non-contact rotational speed measurement

Execution:

- Non-contact measurement using a red, modulated light beam and a reflection marker
- 5 digit LCD display
- Error limit: 0.02% of display value (± 1 digit increment)
- Update time: 1 s
- Measuring distance: optical max. 600 mm
- Memory function: last value measured, maximum value, minimum value, mean

- Shutdown: automatically 30 s after last key press, measured value saved
- Housing: Plastic with holster

Delivery:

Case with basic device, reflection markers, 2 x 1.5 V AA batteries, calibration certificate, operating instructions

Technical data:

- Max. measurement distance: 600 mm
- Error limit (%): 0.02 %



39350...	Ident. No.	025
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Prod. Gr. 301

Stroke counter

Application:

For continuous stroke counting on duplication machines, presses, conveyors.

Execution:

- Count frequency max. 500 strokes/min.
- Stroke movement min. 38°, max. 60°
- Drive shaft right
- Stroke direction towards the observer
- Counting method: adding in stroke direction, 1 stroke = 1 digit

- Zero setting/reset using knurled knob
- Stroke lever: automatic return to home position, adjustable on drive shaft

Technical data:

- Max. display value: 99999
- Number of digits: 5 PCS
- Drive shaft diameter: 4 mm
- Digit height: 4.5 mm
- Width: 40 mm
- Height: 46 mm



39400...	Ident. No.	010
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Prod. Gr. 394

Metre counter (length meter)

Application:

For continuous counting of distances covered on machines, e.g. production lines or conveyors.

Execution:

- Count frequency with measuring wheel max. 200 m/min., without measuring wheel, max. 300 m/min.
- Zero setting/reset using compression lever
- Stroke lever: automatic return to home position, adjustable to left or right on drive shaft
- Ident. No. 010:** Counting method: adding towards observer, subtracting away from observer, 10

digits = 5 revolutions = 1 m with measuring wheel circumference 200 mm

- Ident. No. 020:** Counting method: adding towards observer, subtracting away from observer, 10 digits = 2 revolutions = 1 m with measuring wheel circumference 500 mm

Delivery:

Without measuring wheel

Technical data:

- Max. display value: 9999.9 m
- Number of digits: 5 PCS



Ident. No. 010
Meter counter with measuring wheel

Drive shaft Ø (mm)		4	7
Digit height (mm)		4.5	7
Width (mm)		80	120
Height (mm)		48	64
39430...	Ident. No.	010	020

Prod. Gr. 394

Measuring wheel

Application:

For use in metre counters length meters)



Wheel tread type	Smooth	Serrated	Smooth	Crossed	Serrated
Wheel circumference (mm)	200	200	500	500	500
Material	Plastic	Plastic	Plastic	Nitrile	Plastic
Width (mm)	12	12	25	25	25
Locating bore hole Ø (mm)	4	4	7	7	7
39431...	Ident. No.	241	291	542	562

Prod. Gr. 394

ORION® Quantity counter

Application:

For manually recording quantities at the push of a button, e.g. for counting production batches.

Execution:

- Die-cast zinc housing
- Front cap and base made from durable plastic
- Ident. No. 010:**
 - Handheld piece counter with retaining ring
 - Zero setting using knurled knob
- Ident. No. 020:**

- Piece counter with mounting base for table-top or wall mounting
- Hole pattern for bench mounting: Hole diameter 4.2 mm, hole spacing 50 mm
- Hole pattern for wall mounting: Hole diameter 4.2 mm, hole spacing 52 mm

Technical data:

- Max. display value: 9999
- Number of digits: 4 PCS
- Digit height: 4.5 mm



Ident. No. 010



Ident. No. 020

Width (mm)		52	62
Height (mm)		55	59
Depth (mm)		26	33
48450...	Ident. No.	010	020

Prod. Gr. 394