

## Phonometer

**GSH 8922**

Art. no. 602739  
Phonometer

**General:**

Compensation of the background-noise for measuring sound-sources in the fore-ground. Weighting of the sound level via two weighting-filters according to the IEC standard.  
Assignment of the max/min value during one measuring period.

**Specifications:**

<b>Measuring ranges:</b>	30 - 130 dB (6 ranges) 30 - 80, 40 - 90, 50 - 100, 60 - 110, 70 - 120, 80 - 130 dB manual or automatic selection of range
<b>Resolution:</b>	0.1 dB
<b>Accuracy:</b>	±1.5 dB
<b>Norms:</b>	ANSI S1.4 and IEC 651 Type 2
<b>Frequency rate weighted:</b>	31.5 Hz ... 8 kHz
<b>Evaluation weight filter:</b>	2, selectable
<b>Type A:</b>	evaluation of the spectrum in accordance with the perceptive faculties of the human ear. (Sound insulation establishment, environmental analysis)
<b>Type C:</b>	linear evaluation of spectrum (sonic-analysis of engines or machines)
<b>Weight of time factor:</b>	fast or slow
<b>Microphone:</b>	6 mm Electret condenser microphone
<b>Display:</b>	3½-digit LCD-backlight display, additionally quasi-analog bar graph
<b>Analog output:</b>	AC: 0.707 Vrms, DC: 10 mV DC / dB
<b>Working temperature:</b>	4 ... +50 °C
<b>Relative humidity:</b>	10 ... +90 % RH
<b>Storage temperature:</b>	-20 ... +60 °C
<b>Interface:</b>	RS232, (2400BD8N1)
<b>Power supply:</b>	9 V battery, external 9 V power supply
<b>Operating time:</b>	20 hours (with alkaline)
<b>Housing:</b>	256 x 80 x 38 mm (H x W x D)
<b>Weight:</b>	approx. 240 g (device)
<b>Scope of supply:</b>	Device with analog output, battery, case, manual

## Rotation speed measuring device



**VELOCITY AND LENGTH MEASUREMENT  
VIA MEASURING WHEEL**

**rotaro 3**

Art. no. 603861

Rotation speed measuring device via light and reflecting label or measuring tip

**Application:**

The handheld tachometer rotaro 3 is useful at the installation and setup of plants and machinery as well as for service application, monitoring production processes or use at development laboratory. The rotaro 3 can measure rotary speed of for example motors, turbines, pumps as well as stirring devices, centrifuges and haulage installations, foil or textile manufacturing units, coil and transformer winding machines, machine tools, etc. Furthermore it can measure running speed and length of foils and band of all kind.

**Specifications:**

<b>Measuring range:</b>	
<b>rpm:</b>	1.00 ... 99.999 min <sup>-1</sup> (optical measurement) 1 ... 19.999 min <sup>-1</sup> (mechanical measurement)
<b>Velocity:</b>	Ø 0.1 m: 0.10 ... 1999 m/min Ø 6": 0.10 ... 1524 m/min (other units possible: m/sec, ft/min, in/min ...)
<b>Length:</b>	0 ... 99999 m / ft / in
<b>Accuracy:</b>	
<b>rpm:</b>	±0.02 % of m.v. (±1 digit)
<b>Measuring distance:</b>	max. 600 mm
<b>Measuring principle:</b>	optical / mechanical
<b>Memory function:</b>	min- / max- value memory, average and last value
<b>Power-off:</b>	automatically after 30 s
<b>Display:</b>	5-digit LCD display with 10 mm height of digits and floating point at range change
<b>Power supply:</b>	2 x AA battery or accumulator
<b>Working temperature:</b>	0 ... 50 °C
<b>Storage temperature:</b>	-20 ... +70 °C
<b>Housing:</b>	plastic ABS
<b>Approval:</b>	CE
<b>Dimensions:</b>	175 x 60 x 28 mm (H x W x D)
<b>Weight:</b>	250 g
<b>Scope of supply:</b>	Rotation speed measuring device incl. reflecting labels, measuring tip, hollow tip, measuring wheels (Ø 0.1 m and Ø 6"), extension shaft, calibration certificate, case, battery, manual

## Rotation speed measuring device



**VIA LIGHT AND  
REFLECTING LABEL**

**ecotach**

Art. no. 603673

Rotation speed measuring device via light and reflecting label

**Application:**

The handheld tachometer ecotach is useful at the installation and setup of plants and machinery as well as for service application, monitoring production processes or use at development laboratory. It can measure rotary speed of for example motors, turbines, pumps as well as stirring devices, centrifuges and haulage installations.

**Specifications:**

<b>Measuring range:</b>	1 ... 60.000 rpm
<b>Accuracy:</b>	±0.02 % of m.w. (±1 digit)
<b>Measuring distance:</b>	max. 450 mm
<b>Measuring principle:</b>	optical
<b>Power-off:</b>	automatically after 30 s
<b>Display:</b>	5-digit LCD display for measuring value with floating point, measuring unit, trigger signal, low-battery warning, notification when battery is low
<b>Power supply:</b>	2 x AA battery or accumulator
<b>Working temperature:</b>	0 ... 50 °C
<b>Housing:</b>	plastic ABS
<b>Approval:</b>	CE
<b>Dimensions:</b>	145 x 60 x 28 mm (H x W x D)
<b>Weight:</b>	147 g
<b>Scope of supply:</b>	Rotation speed measuring device incl. reflecting labels, transportation slip case, battery, manual

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