

HIGH-PERFORMANCE STROBOSCOPES FOR INDUSTRY AND RESEARCH



HELIO-STROB turbo

... precision and light output in rugged industrial-grade

- pin sharp images
- short flash duration ($4,3 \mu\text{s} / 60 \text{ Hz}$)
- mains and battery operation
- internal and external triggering
- TTL-output
- hand-held or tripod operation
- phase shifting



ELMED
MESSTECHNIK

HELIO-STROB turbo

Applications

The light of the HELIO-STROB turbo gets a new quality by extremely short flash impulses with constant brightness. Even the smallest parts are displayed pin sharp, without any motion blur. Thanks to the intuitive handling via the "smart" encoders you easily get accurate results in the speed measurement, in the vibration analysis or in the observation of rapid movement sequences. The flash frequency can either be controlled by the accurate internal trigger or by an external trigger. Proximity switches and optical sensors can be connected directly to the signal input of the stroboscope. Additional devices can be synchronously triggered by the TTL-output. The following product versions are available: external power supply, power supply via mains adapter, combination set for mains & battery operation, high-speed version up to 800 Hz / 48000 min⁻¹



Connections: left trigger, right power supply



Technical Data

Power supply	dep. on version
Power consumption	approx. 32 W
Metal case	195 x 80 x 56 (mm)
Weight	approx. 0.6 kg
Light source	flash tube, plug-in installation
Flash duration	4.3 μ s (60 Hz)
Frequency range in Hz/min ⁻¹	1 – 435 Hz / 60 – 26100 min ⁻¹ 1 – 800 Hz / 60 – 48000 min ⁻¹ (optional)
Control of the flash rate by	twist knob, external control by transducer, pos. impulses 3 to 20 V
Measured value display	digital, 5-digit 7-segment display, display in Hz / min ⁻¹
Resolution of the display	0.01 Hz/1 min ⁻¹
Phase shifting	0° – 540°
Light output	0.13 Ws max.
Light intensity	600 Lux max. (at a distance of 50 cm)
Total power	21.2 W
Operating temperature	0° ... +40° C
Storage temperature	-20° ... +85° C
Air humidity	max. 80 % relative air humidity at 30° C
Certification	CE

Versions:	435 Hz max.	800 Hz max.
HELIO-STROB turbo 12 – 24 VDC	0300200010	0300201010
HELIO-STROB turbo with mains adapter 100 – 240 VAC	0300201000	0300201002
HELIO-STROB turbo (AC/DC) Combination-set for mains or battery operation with mains adapter & battery	0300201021	0300201023

Revisions in the course of technical progress reserved.

