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... the professional solution for special challenges

HELIO-STROB GAMMA



The advantages at a glance

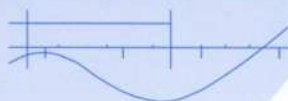
- Microprocessor controlled, high-speed instrument with high, very constant brightness
- Synchronisation of several instruments possible
- Frequency range 0.1 ... 1075 Hz (internal) !!
- Precise clock generation and phase shifting
- Accurate measurement and delay with external clock
- Settings can be stored
- Safe operation with integrated monitoring functions (e.g. arc-through protection)
- Optional 2nd hand-held lamp socket

ELMED
MESSTECHNIK



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Applications:

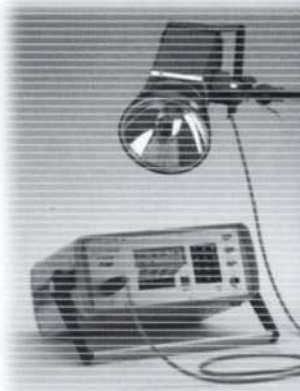
Highest requirements, professional application: the HELIO-STROB GAMMA is in its element with these. With a maximum flash frequency of over 1000 Hz, microprocessor-controlled, precise light output, a synchronisation facility of several instruments for optimum illumination and a wide range of control functions, a stroboscope is implemented in the GAMMA which leaves no wishes ungranted. The associated, separate hand-held lamp is designed to accommodate the possibilities of the GAMMA with a special, high-power tube and a reflector with 160 mm diameter. The HELIO-STROB GAMMA is used in the field of high-speed video, in research and development work and everywhere where precision, convenience of use and functionality are demanded for individual, sophisticated solutions.

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special challenges.

Revisions in the course of
technical progress reserved.

Technical data of the controller

Power supply	220 – 240 VAC / 110 – 120 VAC															
Power consumption	approx. 500 W															
Metal twin-shell case with handle	371 x 157 x 262 (mm)															
Weight	5.5 kg															
Control	microprocessor															
Internal control (operation)	decimal keyboard / menu															
Frequency range, internal clock	0.1 – 1075 Hz															
Frequency range, external clock	0.1 – 1075 Hz, higher frequencies (max. 10000 Hz) are divided automatically															
Measuring range switching	automatic															
Measured value display	digital, LC display, 2-digit, 9 mm character height															
Display / resolution	Hz / 0.01 Hz															
Phase shifting (display)	ms															
Phase shifting / trigger delay	internal clock 0 – 999.999 ms (max. 1 period) external clock no delay delayed 50 µs – 999.999 ms (max. 1 period)															
Clock input	<ul style="list-style-type: none"> • socket for external source (supply voltage 5 V / 12 V) • BNC • internal mains triggering 															
Input level	trigger level programmable +50 mV, +400 mV, +4 V, hysteresis +10% / -30%, positive or negative flank programmable input voltage -20 V..+20 V															
Measurement duration	0.5 s															
Impulse period (ext. trigger)	approx. 200 µs															
Input impedance	330 kΩ in the 0 ... 5 V range The input impedance falls to 10 kΩ outside this range															
Clock output	separate outputs for direct and delayed clock															
Output voltage	0 V / 5 V positive or negative impulse programmable															
Output resistance	low impedance to ground, 470 kΩ to +5 V															
Flash energy	automatic switching with restriction facilities															
	<table border="0"> <thead> <tr> <th>Stage</th> <th>Fmax / Hz</th> <th>Pmax / Ws</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1075</td> <td>0.25</td> </tr> <tr> <td>2</td> <td>525</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>349.5</td> <td>0.75</td> </tr> <tr> <td>4</td> <td>275</td> <td>1</td> </tr> </tbody> </table>	Stage	Fmax / Hz	Pmax / Ws	1	1075	0.25	2	525	0.5	3	349.5	0.75	4	275	1
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1	1075	0.25														
2	525	0.5														
3	349.5	0.75														
4	275	1														
Operating time	automatic adjustment to energy and frequency. 20 s at 1000 Hz, cooling phase 40 s															
Operating temperature	0° ... +40°C															



Technical data of the separate hand-held lamp

Case	full metal case with handle
Tripod mounting	ball socket
Light source	quartz flash tube, plug-in installation
Connecting cable length	2 m
Weight	1.9 kg
Case dimensions	280 x 180 x 180 (mm)
Reflector	max. diameter 160 mm surface smooth

Accessories

Inductive transducer	Trigger adapter	Synchronising cable
Reflection transducer	Transport case	Reflective pads

Other accessories on request



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