

# STROBOSCOPE

1390\_ENG Rev. 01



## Type 1390-10

Stroboscope MS 300 is a measuring instrument suitable for examinations and measurements of movement sequences, oscillating or rotary parts as well as for measurement of rpm or oscillating frequency without loss of power.

A handy instrument for simple and quick operation with comprehensive applications within education and research as well as for industrial purposes such as adjustment, fault-finding, measurement etc.

The stroboscope is also very suitable as light source for short-time photographing of movements.

Frequency adjustment/phase angle is made by a turnable knob. If you make a fast turn, then a large step is taken. If you make a slow turn, the change is only in small steps.

Provided with a 4-digit LED-display placed on the top of the instrument which makes safe reading also in illuminated surroundings possible.

MS 300 is remarkable by a 8 watt's flash in the whole frequency spectrum (1-300 Hz) with a homogenous light cone over the surface.

MS 300 has been equipped with a number of service functions which with a single pressure change between internal/external triggering/control signal as well as the functions flash, rpm, phase angle.

The phase angle gives the possibility to delay the control signal in relation to flash (int. trig) or to delay flash in relation to control signal (ext. trig).

MS 300 is as standard supplied with RS232 serial computer interface which means that the instrument can be controlled manually or via computer interface.



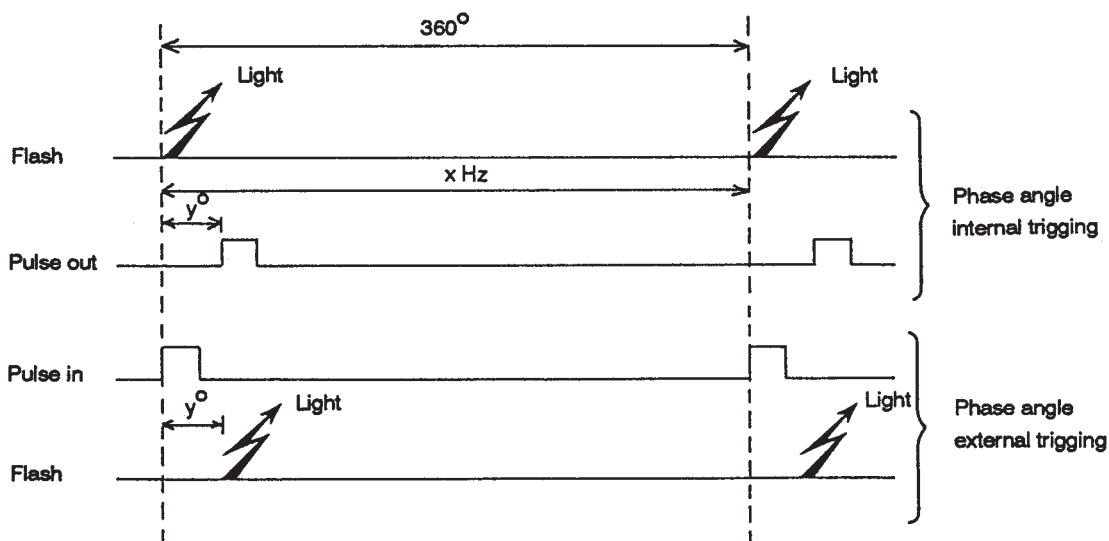
IMPO Electronic A/S · Svovlhatten 3 · DK-5220 Odense SØ · Denmark  
Tel. +45 6315 4050 · Fax +45 6315 4058  
mail@impo.dk · www.impo.dk

## Stroboscope MS 300 with construction based on new thoughts:

- No range selector.
- Digital reading of internal as well as external flash rate with autoranging and 1 digit resolution.
- Adjustment of flash via phase angle delay according to trigger pulse (internal + external).
- Big turnable knob for adjustment of flash rate or phase delay.
- Max light output regulated by microprocessor.
- Standard RS232 computer interface for control of all functions.
- Possibility for user programmable setup parameters via computer interface, including special asynchronous flash sequences.
- Continuous internal memory for all setup parameters by use of the latest eprom technology.
- User manual is included.

### Technical specifications:

Flash tube:	XENON longlife, 8 watt
Average flash duration:	Appr. 100 $\mu$ S
Light intensity:	Appr. 500 lux v/0.2 m
Frequency range:	1-300 Hz (flash/sec.) 60-18000 rpm
Phase delay range:	0-360° (continuous regulation) angle delay of pulse (external trigger pulse)/internal trigger mode on flash
Display:	4-digit autorange reading in Hz, rpm or degr. (phase angle)
Display decade:	0-9 Hz, 3 digits 10-99 Hz, 2 digits 100-300 Hz, 1 digit
Trigger:	Internal or external mode
Interface:	RS232/V 24 serial computerinterface
Baud:	300, 1200, 2400, 4800, 9600 bits/sec.
Data format:	7 bit ASCII, even parity, 1 start/stop bit
Voltage:	230 V AC $\pm$ 10%, 50 Hz
Dimensions:	105 x 133 x 273 incl. handle and rubber feets
Weight:	3.2 kg



All specifications are subject to change without notice

