

DT-311 & 315

Digital High-End Stroboscope

Features

- Flash frequency up to 35.000 min⁻¹ with flash controller for continuous use
- Robust aluminium housing and polished reflector for optimised illumination uniformity
- Programmable flash delay (rotation angle or time related) for external trigger
- Instruments for VAC or combined VAC/battery operation
- Signal output for synchronised triggering of chained flashing units



Details



Series DT-311& 315N stroboscopes can either be hand-operated or mounted on a tripod, and can be used to observe fast repeated motions as well as to determine RPM or rate of machinery components. Not only continuous motions of materials, but also processes, which are normally impossible to observe due to their high rate, can be visualised.

The turning or oscillating machine part can be visualised as a stop-motion picture by adjusting the light flashes synchronously to the rate of the movement. With the multiplier/divider function, it is able to determine the actual RPM or frequency of the motion accurately. The phase shift function enables slow-motion effects and visual positioning of the observed component.

The instrument can be triggered by means of an external sensor (power supply for the sensor is provided by the stroboscope). The flashes can be delayed either in time or rotation angle.

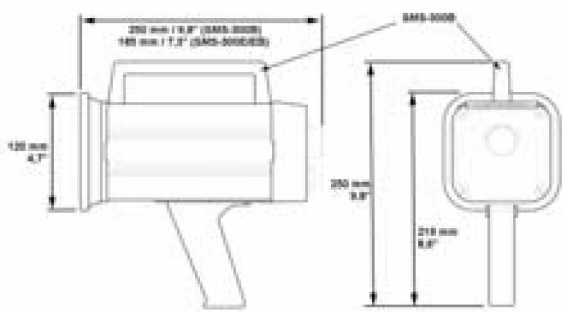
Order Info

DT-311

DT-315N

Stroboscope with external power supply, mains cord and operation manual.

Stroboscope with internal rechargeable battery, AC-charger, mains cord and operation manual.



SMS-907
SMS-800

Spare flash tube
Calibration certificate – Stroboscopes

Spec

DT-311

DT-315N

Range
Accuracy
Resolution
Phase Shift

internal trigger
external trigger
delay time (ext.)

Multiplier
Output Signal
Input Signal

type
sensor voltage supply

Display
Flash Tube

type
life time
flashing time /-

Battery

illuminance
type
operation/ recharge
time
overcharge protection
operation during charging

Power Supply
Temperature Range
Weight
Housing Material
Tripod Fixing

operation

	40...35.000 FPM	
	0,01% (+/-1 digit)	
	0,1 FPM 0,2FPM (5.000...7.999,8) 0,5 FPM (8.000...9.999,5) 1 FPM (> 10.000)	
	360°	
	0°...359° (resolution 1°)	
	0...2.000 msec	
	X 2 X 1/2	
	12VDC, 400µsec	
	NPN open collector L:0...0,8VCD H:2,5...12VDC, 50msec, Imp. 10kOhm	
	12 VDC, 40 mA	
	red LED, 5-digit, 10mm high	
	Xenon 10 W white 6500K	
	100 mio flashes	
	10...40 µsec / ~ 350 Lux	
	- / -	internal NiCd-battery
	- / -	app. 60 min / app. 15 h
	- / -	9
	- / -	9
	230 VAC (50...60Hz)	Charger: 100...240VDC (50...60Hz)
	0...40° C	
	1.200 g	2.100 g
	anodised aluminium	
	1/4-20unc, length 8mm	