

Stroboscope DT-311N

Measuring range 40 - 35000 flashes per minute (rpm, min⁻¹)

Frequency range 0.7 - 585 Hz

Hand held stroboscope for non-contact determination of revolutions, for monitoring moving parts and ascertain the oscillation frequency of running systems.

Industrial stroboscope for mains operation with LED display

Stroboscope with rugged aluminium housing and big reflector



Stroboscope DT-311N 

Special Features

- Mains operation
- Stroboscope with easy to read LED display
- Big reflector assures good illumination of the monitoring object
- 350 Lux (depending on flash rate) at a distance of 50 cm
- Double-flash-function (x 2) und half-rate-flash function (: 2) for easy and fast determination of the true flash rate
- Accepts external trigger input: Phase shift adjustment 0° to 359° permits observing movements of objects in slow-motion
- Flash delay switch to move a freezed object slowly within 6 s
- Output signal for synchronize and trigger more stroboscopes

Standard Features

- Easy to operate controls
- Detachable pistol-grip handle and mounting possibility on tripod
- Xenon-longlife flash tube
- Industrial stroboscope with rugged aluminium housing
- Certificate of Compliance with the order 2.1 according EN 10204 is included

8. - **Switch:** When an object appears to be standing still, pressing this switch will give the illusion that the object is moving in the reverse direction at a speed of 1 rotation in 6 seconds.

9. **Power Switch**



Available Models

Model	Description	
DT-311N	mains operation alternative	
DT-315N	mains or battery operation	more

Accessories (optional)

Rubber End Caps Code H.



End caps for shock-absorbing design
Order number: 20009S

Click picture for more information



Calibration Certificate

Calibration certificate with calibration report is optional available.

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Operation Elements

1. **Signal Switch** for switching from internal to external signal (triggering)

2. **x 2 Switch** for doubling the flash rate

3. **: 2 Switch** for dividing the flash rate

4. **Speed Setter** for setting the flash frequency and delay angle for trigger mode

5. **Input** (trigger signal)
Output (for sensor connection)

6. **Display Unit Switch** (only in trigger mode)
rpm: Displays flashes per minute from 40.0 to 35000 min⁻¹
deg: Displays flash delay angle in degrees from 0 to 359°
msec: Displays the flash delay time in milliseconds

7. **+ Switch**: When an object appears to be standing still, pressing this switch will give the illusion that the object is moving towards the rotating direction at a speed of 1 rotation in 6 seconds.

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Spare parts



Flash Tube

Order number: 20001S

Click picture for more information

Delivery Includes



Stroboscope with transport packing case, 1 trigger plug, 1 pistol grip, Certificate of Compliance with the order 2.1 according EN 10204 free of charge and operating manual in german and english

Dimensions

For PDF-file please
click picture

Specifications

Flash range:	0.7 - 585 Hz = 40 - 35000 min ⁻¹ (rpm) automatic range control
Accuracy:	±0.1 % of reading ±1 digit
Resolution:	40 - 4999 min ⁻¹ : 0.1 min ⁻¹ ; 5000 - 7999 min ⁻¹ : 0.2 min ⁻¹ 8000 - 9999 min ⁻¹ : 0.5 min ⁻¹ ; 10000 - 35000 min ⁻¹ : 1 min ⁻¹
Light intensity:	Approx. 350 Lux (depending on flash rate) at a distance of 50 cm
Flash range:	10 - 40 µsec
Display update time:	Approx. 0.2 s
Temperature range:	5 - 45 °C
Display:	LED 5 digit, 10 mm high
Flash tube:	Xenon, 10 W (100 million flashes), colour white 6500K
	0° - 350° (in 1° resolution)

Phase shift:

Triggering input signal: H-Level: 2.5 - 12 V
L-Level: 0 - 0.8 V, pulse width minimum 50 μ s,
positive edge trigger; input resistance approx. 4.7 k Ω

Output signal for sensor: 12 V \pm 0.6 V DC, 40 mA 400 μ sec

tripod fixing: 1/4"

Power supply:* 230 V AC \pm 10 %, 50/60 Hz

Air humidity: 85 % RH, max.

Housing material: Aluminium profil/ABS

dimensions: 185 x 120 x 120 mm (LxWxH)

Weight, net (gross): Approx. 1200 g (ca. 1800 g)

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