

Rotation rate F820 Stroboscope



Fluke 820 stroboscope is a light source flashing at a certain frequency. When observing a high speed rotating or moving object, a stroboscope make it seem to be slow-moving or stationary by adjusting flashing frequency of LED flash light to close to and synchronize to rotation rate or moving speed, so that surface quality or operation statues of the object can be detected.

A stroboscope is used for measuring rotation rate of motors, wind turbines, bumps, gears, etc.; verifying product quality on high-speed product-line, diagnosing product vibration. Stroboscopes are widely used in HVAC, print, manufacturing, paper, spinning, medicament, light industry, mechanism process, etc.

Features

- compact and small, easy to carry
- Ergonomic design, easy to hold and read.
- High range: 30 to 300,000 FPM (flash/ min) 0.5-5000Hz
- High accuracy: 0.02%
- Maximum 300,000 counts display
- External trigger can be used
- Measure rotation rate of rotating equipments without stopping operation.
- 1 m drop test
- Warranty: 2 years.

Specifications

Mechanical Specifications	
Size (H × W × L)	5.715 × 6.096 × 19.05 cm (2.25 × 2.4 × 7.5 in)
Weight	TBD
Environmental Specifications	
Operating Temperature	0 °C to +45 °C
Storage Temperature	-10 °C to +50 °C
Operating Humidity	Non condensing (<10 °C) 90 % RH (10 °C to 30 °C) 75 % RH (30 °C to 40 °C) 45 % RH (40 °C to 50 °C) (Without Condensation)
Absorption/Corrosion	30 °C , 95 % RH, 5 day Meter functions normally
Operating Altitude	2,000 m
Storage Altitude	12,000 m
IP Rating	IP 42
Vibration Requirements	MIL - T - 28800E Class 2
Drop Test Requirements	1 m
EMI, RFI, EMC	EN61326-1:2006
Safety Compliance	
Agency Approvals	CE
Protection Class	Pollution Degree II

Miscellaneous Specifications

Flash Frequency	
Range	30 to 300,000 FPM 0.5 to 5000 Hz
Accuracy	0.02 %
Resolution	30 to 999 FPM = 0.1 1000 to 300,000 = 1 0.5 to 999 Hz = 0.1 1000 to 5000 Hz = 1
Frequency Setting	FPM or Hz
Flash Pulse	
Duration	Adjustable in μs or degrees
Delay	Adjustable in ms or degrees
Light	
Color	Approx 6500 K
Emission Output	E1500 Lux @ 6000 FPM at 20 cm (7.9 in)

Models and accessories Standard accessories:

- User's Manual
- Register card
- Calibration certification
- Hard case
- 3 AA batteries
- Input cable for external trigger