

SHIMPO Handheld Stroboscopes

DT-311A AC Powered Stroboscope

The DT-311A heavy duty, AC-powered stroboscope provides the illusion of "stopped motion" by adjusting the strobe's flash rate, causing the equipment to appear to be standing still or in slow motion. The DT-311A also measures rotational (RPM) or reciprocating (strokes per minute) speeds with the same precision as an electronic digital tachometer. The DT-311A stroboscope is ideally suited for printing inspection, motion analysis, preventive maintenance and speed measurement of repetitive motion. The DT-311A strobe provides timely data on vibrating parts, leaks, spray patterns and a variety of industrial and scientific operations. The unit is extremely easy to maneuver and operate via its light-weight and compact design and simplified user interface. Its rugged metal construction provides unequalled reliability in the harshest environments.

Features

- Aluminum construction provides exceptional durability
- Highly polished and focused reflector eliminates "blind" viewing areas
- External trigger allows unit to be automatically synchronized with equipment*
- Continuous duty cycle eliminates need to shut down for cooling
- Phase shift allows visual analysis of rotating/reciprocating objects
- High accuracy ($\pm 0.01\%$ of reading) is ideal for QC inspection and process control
- Synchronous output enables strobe to drive other strobes*
- Flash timer control conserves flash tube life
- Easy tripod or permanent mounting with 1/4-20 UNC x 5/16 in. deep integral mounting thread • Grounded power cord, 9-feet long
- 2-year warranty

* Requires additional cables and / or accessories not available from AutomationDirect. Contact Shimpo Instruments at (800) 237-7079 or www.shimpoinst.com/contact-us

DT-311A Specifications	
Flashing Range	40.0 - 35,000 FPM (flashes per minute)
Accuracy	$\pm 0.01\%$ of reading
Resolution	0.1 FPM: 40.0 - 5,000 FPM 0.2 FPM: 5,001 - 8,000 FPM 0.5 FPM: 8,001 - 10,000 FPM 1 FPM: 10,001 - 35,000 FPM
Display Update Time	0.2 seconds approximate
Output Signal	Synchronous, 400 μ sec Pulse output, 0 to +12 VDC amplitude (approx.), 4.7 K Ω impedance
Rate Multiplier / Divider	Multiply by 2, Divide by 2
External Mode Accuracy	$\pm 0.01\% \pm 1$ digit
Phase Shift	0 to 359° with 1° resolution
Delay Time	0 to 2,000 msec from 40 - 10,000 FPM
External Trigger Input Signal	LO level: 0 - 0.8 VDC, HI level: 2.5 - 12 VDC or open collector (NPN), pulse width 50 μ sec min.
Input Impedance	4.7 K Ω to 12 V / 6.8 K Ω to 0 V
Display	5 digit, 0.4 in. (10 mm) high, LED
Flashtube Power/Life	Xenon, 10 W max. (100 million flashes)
Flash Duration	10 - 40 μ sec
Sensor Power Supply	12 VDC (40 mA)
Power Requirement	115 VAC $\pm 10\%$ 60/50 Hz, 30 VA
Operating Temperature	32 - 104°F (0 - 40°C)
Weight	2.6 lbs (1.18 kg)
Dimensions	7.28 in. L x 4.72 in. W x 4.72 in. H (185 mm x 120 mm x 120 mm)
Agency Approvals	CE
Construction	Aluminum



DT-311A

DT-311A AC Powered Stroboscope		
Part Number	Description	Price
DT-311A	Heavy-duty digital stroboscope, 120VAC input, 5-digit LED display	

Accessories

DT-311A Series Accessories		
Part Number	Description	Price
DT-CARRYING-CASE	Carrying case for DT-311A or DT-315A stroboscopes	
FLASHTUBE311-2	Replacement flashtube for DT-311A or DT-315A stroboscopes	
DT-SG-300	Rubber strobe guard for DT-311A or DT-315A stroboscopes	



DT-CARRYING-CASE