

### DT-315P Battery Powered, NEMA 4X Stroboscope

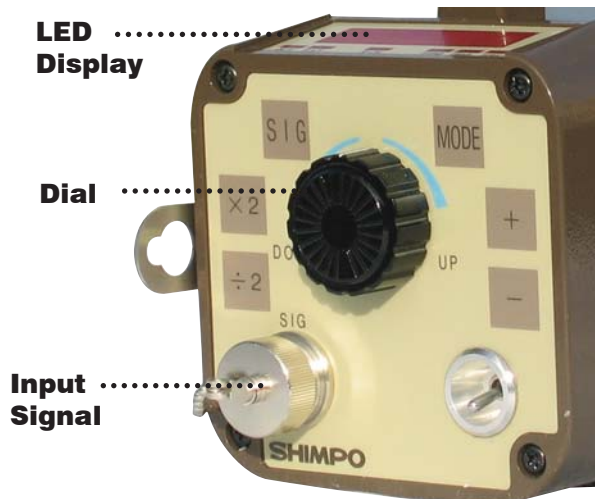
**Series DT-315P Battery Powered, NEMA 4X Stroboscope for Harsh Applications.** The DT-315P is a rugged, sealed NEMA 4X (IP65) Stroboscope suitable for working in areas without AC power. The DT-315P works just like the DT-315A battery operated strobe. Equipped with Phase shifting in angle of delay (0-359 degrees) and flash time delay, (0-300 mSEC) the DT-315P is engineered for checking timing and wear on rotating and reciprocating machinery. With its rugged, metal body and NiCd rechargeable battery, the DT-315P provides the maintenance and quality professional a rugged, accurate strobe-tach for inspection on presses, conveyers, gear reducers, chain drives, fuel injectors, paint spray patterns, and many other harsh environment, industrial applications.



#### Features

- *Extruded aluminum, NEMA 4X construction: Extraordinary durability yields long service life*
- *Internal battery supply: Lightweight; enables easy portability*
- *Repeatable accuracy ( $\pm 0.01\%$  of reading): Fully meets the strictest tolerances*
- *Phase shift (in degrees of delay time): Enables visual analysis of rotating/reciprocating objects through all points of motion/time/angle*
- *Flash timer control: Prolongs flash tube life*
- *Manual flash controller knob: Permits easy/accurate adjustments to flash rate*
- *Continuous duty cycle: Eliminates downtime waiting for unit to cool*
- *Highly polished focused reflector: Prevents "blind" viewing areas*

#### Easy Operation Control



**SIG**

Change Operation from INTERNAL to EXTERNAL flash control

**MODE**

Internal Signal "MODE" (Flash) or External Trigger Control LED Changes to Indicate FPM (flash/min.), flash delay in degrees and flash delay in milliseconds

**X2 / ÷2**

Adjust Flash Rate Settings Fast X2 or ÷2 flash rate setting when in "Internal" mode

**+/-**

Phase "SHIFT" Advance or Retard viewed motion in degrees or milliseconds

## DT-315P Specifications

|               |                                  |   |
|---------------|----------------------------------|---|
| Internal Mode | <b>Flashing Range</b>            | 60.0 ~ 3,000 FPM  |
|               | <b>Display Accuracy</b>          | ±0.01%  |
|               | <b>Drift</b>                     | ± 0.01 (at 0 ~ 40° C)   |
|               | <b>Phase Shift</b>               | Use +/- push buttons (360° in 6 seconds)  |
|               | <b>Display Update Time</b>       | 0.2 sec approx  |
|               | <b>Output Signal</b>             | Approx. 12V   |
|               | <b>Other Functions</b>           | ÷2. x2 Flashings, Phase shift adjustment  |
| External Mode | <b>Flashings</b>                 | Synchronous Mode: 60.0 ~ 3,000FPM / Delay mode:200 ~ 3,000 FPM  |
|               | <b>Delay Angle Setting Range</b> | Delay Mode: 0 ~ 359°, Set by 1°   |
|               | <b>Display</b>                   | RPM, Synchronous mode: 60.0 ~ 3000FPM Delay Angle, Delay mode: 0 ~ 359° or 0 ~ 300mS conversion display   |
|               | <b>Display Accuracy</b>          | Synchronous mode: ± 0.01% plus ± 1 digit Delay mode: + 0 -0.2mS plus ± 1 digit  |
|               | <b>Update Time</b>               | 1 per second  |
|               | <b>Input Signal</b>              | H Level:2.5 ~ 12V L level:0 ~ 0.4V 50 μs or over for H.L. level Trigger at rising edge Approx. 10Ωimpedance   |
|               | <b>Sensor Power</b>              | Battery:6.8 ~ 11.0V Adapter:10.2 ~ 12.2V DC:9 ~ 14.5V : 7.8 ~ 14.1V Max. 40mA (including max 0.6V Ripple)   |
|               | <b>Setter</b>                    | Flashing, Delay angle: Jog Shuttle Mode, Display Unit: Tact Switch  |
| General       | <b>Display</b>                   | 5 digit, 7 segment red LED (Character height 10mm)  |
|               | <b>Flashtube</b>                 | Xenon lamp TFU-100B-A32   |
|               | <b>Flashtube Power</b>           | Max. 10W  |
|               | <b>Flashing Time</b>             | Approx. 30 μ sec  |
|               | <b>Power</b>                     | Battery: Nicd battery, 8KR - 2000 sce SANYO, Operating time: Approx. 1 hour (full charge at 3000 FPM); Battery Charge Time: Approx. 10 hours Do not operate over 10 hours continuously<br>External power: Disconnect the built-in battery before operating instrument by external power)<br>DC9 14.5V, Max. 24W (current consumption is 24W/input voltage) or operate by provided adapter; AC115V 10%, 50/60 Hz Max. 40VA |
|               | <b>Operating Temperature</b>     | 32 to 104 °F (0 to 40° C)   |
|               | <b>Power Requirement</b>         | Power Plug & Cable for Recharging Battery Included  |
|               | <b>Product Weight</b>            | Approx. 4.6 lbs (2.1 kg)  |
|               | <b>Package Weight</b>            | 6.15 lbs (2.79 kg)  |
|               | <b>Dimensions</b>                | 5.11" W x 6.22" H x 10.20" L (130 W x 158 H x 259 L mm)   |
|               | <b>Warranty</b>                  | 2-Year  |
|               | <b>Included Accessories</b>      | Input/Output signal plug, rechargeable battery with AC adapter, protective case   |

### Ordering Details

|                    |  |
|--------------------|--|
| <b>DT-315P</b>     | Harsh Environment NEMA 4X (IP65) Stroboscope with Included rechargeable battery, power cable and protective case |
| <b>NIST-STROBE</b> | NIST traceable certificate for digital stroboscopes, includes data   |

### Accessories

|                        |                                    |
|------------------------|------------------------------------|
| <b>BAT-DT315A/P</b>    | Internal battery for DT-315P       |
| <b>DT-315P-CHGR</b>    | AC adapter/charger for DT-315P     |
| <b>FLASHTUBE-311-2</b> | Replacement flash tube for DT-315P |
| <b>SAS-DT300</b>       | Permanent mount swing arm          |



The Right Source For Your Test & Measurement Needs

8715 Mesa Point Terrace San Diego, CA 92154  
Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012  
Email: [sales@calright.com](mailto:sales@calright.com) <http://www.calright.com>