



DIGITAL STROBOSCOPE

Model : DT-2269

ISO-9001, CE, IEC1010



FEATURES

- * Push keyboard setting.
- * External trigger input.
- * RS232 computer interface output.
- * Flash rate :
5 to 10,500 RPM/FPM.
0.083 to 175 Hz
- * Display 14 mm LED, 6 digits.
- * High resolution.
- * Main function : Fine adjust, Coarse adjust, Multiply by 2, Divide by 2, Fast finder, Memory recall.
- * Memorize 10 sets of measuring data.
- * Crystal time base and microprocessor circuit, not necessary take any calibration procedures.
- * Power supply :
AC 110V/220V/230V, 50/60 Hz.
- * Application for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors, general industrial maintenance, production, quality control, laboratories, schools and colleges...



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push keyboard setting, external trigger, RS232

DIGITAL STROBOSCOPE

Model : DT-2269

FEATURES

* DT-2269 is a microprocessor circuit design, high accuracy, digital readout STROBOSCOPE. Adjusting the "Flash Rate" by push button keyboard, unique design in the world, easy operating & with intelligent function. That is ideal for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors and other equipment used in general industrial maintenance, production, quality control, laboratories and as well as for schools and colleges for demonstrating strobe action.

* External trigger input.

* RS232 computer interface output.

SPECIFICATIONS

| | | | |
|---------------------------------|--|----------------------|---|
| Display | 14 mm (0.56") LED, 6 digits. | External trigger | Input signal : 5V to 30 V rms, 5 to 10,500 RPM. 0.083 to 175 Hz. |
| Set up unit | Flash rate - RPM/FPM, Hz * FPM - flash per minute. | Power supply | AC 110V 10%, 50/60 Hz. or AC 220V 10%, 50/60 Hz. or AC 230V 10%, 50/60 Hz. |
| Flash rate set up range | RPM 5 to 12,500 RPM. Hz 0.083 to 175 Hz. | Circuit | This stroboscope/tachometer employs an custom one-chip of microcomputer LSI circuit & crystal control time base which results in extraordinary accuracy & high set up stability over a wide, dynamic range. |
| Resolution (internal trigger) | RPM/ FPM 0.1 RPM 5 to 999.9 RPM 1 RPM 1,000 to 9,999 RPM 10 RPM 10,000 to 12,500 RPM Hz 0.001 Hz < 10 Hz 0.01 Hz 10 Hz - 99.99 Hz 0.1 Hz 100 - 208 Hz | Power consumption | Less than 30 Watt. |
| Accuracy | $\pm (0.15 \% + 0.2 \text{ RPM }) \text{ rdg. } < 1,000 \text{ RPM}$ $\pm (0.5 \% + 1 \text{ RPM }) \text{ rdg. } 1,000 \text{ to } 3,300 \text{ RPM}$ $\pm 1 \% \text{ FS. } 3,301, \text{ to } 12,500 \text{ RPM}$ rdg : reading, FS : full scale | Dimension | 21 x 12 x 12 cm (8.3 x 4.8 x 4.8 inch). |
| Switch Select Function | RPM, Hz Fine adjust, Coarse adjust, Multiply by 2, Divide by 2, Fast finder, Memory recall. | Weight | 1Kg/2.2 LB. |
| Memory | Can memorize 10 sets of measuring data. | Housing case | Compact and impact plastic injection case with plastic mirror type reflector. |
| Set up stability | 1 digit within 10 minute. | Calibration | Crystal time base and microprocessor circuit, not necessary take any external calibration procedure if the stroboscope working properly. |
| Data output | RS 232 computer interface. | Accessories included | Operation manual.....1 PC. Power cord..... 1 PC. |
| Operating temp. | 0 to 50 °C (32 to 122 °F). | Optional Accessories | * RS232 cable.....UPCB-02 * USB cable..... USB-01. * Data Acquisition softwareSW-U801-WIN. |
| Operating humidity | Less than 80% R.H. | | |
| Operating duty Cycle | For prolong life and safe operation, please adhere to the following duty cycle: < 2000 RPM - 2 hours, 2000 to 3600 RPM - one hour, 3601 to 8000 RPM - 30 minutes, > 8000 RPM - 10 minutes. * 10 min. cooling off period between cycles. | | |

FLASH TUBE SPECIFICATIONS

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|----------------|---|------------------------|---|
| Flash tube | Xenon lamp. | Flash tube replacement | It is required to change the flash tube when the instrument start to flash irregularly at speeds of 3600 RPM/FPM or more. |
| Flash Duration | Approximately 60 to 1,000 microseconds. | | |
| Flash color | Xenon white 6,500 K degree | | |
| Flash energy | 4 Watts-seconds (joules). | | |
| Beam Angle | 80 degrees. | | |

OPERATIONS PROCEDURES

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|-----------------|---|
| Preparation | (a) Plug unit into a properly grounded 110V AC, 220V AC or 230V AC outlet. (b) Turn the power switch to " on " position. (c) Determine the range switch to " Low " or " High " position. |
| Checking Speed | When checking speed, care must be taken to insure that the strobe is flashing in unison (one to one) with the object being monitored. A Stroboscope will also stop motion at 2:1, 3:1, 4:1 et., this is normally referred to as harmonics. To be sure of unison, turn the dial until two images appear - this will double the actual speed. Then lower the flashing rate until a single and stationary image appears - this is the actual true speed. |
| Checking Motion | For motion analysis, simply locate the actual speed as mentioned above and then turn the dial slowly up or down. This will give a slow motion effect allowing complete inspection. |

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| Remark | When order the stroboscope, should inform the power supply type is AC 110V, or 220 V or 230V. |
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* Appearance and specifications listed in this brochure are subject to change without notice.

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