



VDAS®

Versatile Data Acquisition System

ST1

Stroboscope

Portable stroboscope that works with several TecEquipment products. Also good for general-purpose laboratory use.



- Portable, lightweight, robust unit that works with selected TecEquipment products, but is also good for general-purpose laboratory use
- Internal or external trigger
- Variable flash frequency
- Includes digital display of flash frequency
- Can synchronize to the mains (supply) frequency
- External trigger input works with other TecEquipment equipment

ST1

Stroboscope

Description

A portable digital stroboscope for general laboratory use, such as speed measurement and motion studies. It emits a white light flash from a bulb and reflector on the front of the unit. The rear panel holds the stroboscope controls, lead sockets, and a liquid crystal display.

The stroboscope has three modes of operation: internal oscillator; external trigger; mains synchronised.

The internal oscillator produces a continuous flash frequency range, adjusted using a rotary control. To hold the frequency at a set value, the rotary control can be disabled. Once disabled, moving the control will not change the flash rate.

The external trigger allows another frequency generating device to control the flash rate.

The mains synchronised mode sets the flash rate to that of the mains frequency.

The stroboscope also has an inhibit flash facility. This is an electrically isolated method of stopping the flash in all modes of operation. It safely, quickly and remotely prevents the stroboscope from flashing without having to switch off the unit.

The stroboscope can also be connected to remote input sensors, and has an internal power supply to operate them. It also allows settings to be stored after use, which is useful when repeating experiments or demonstrations.

Standard Features

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

Operating Conditions

Operating environment:
Laboratory

Storage temperature range:
−25°C to +55°C (when packed for transport)

Operating temperature range:
+5°C to +40°C

Operating relative humidity range:
30% to 95% non-condensing

Essential Services

Electrical supply:
Single-phase 110 VAC 50 Hz/60 Hz or 230 VAC
50 Hz/60 Hz (specify on order)

Specification

Nett dimensions: 230 mm wide x 190 mm front to back,
120 mm high and 2.5 kg

Approximate packed dimensions:
0.023m³ and 5 kg

Flash rate: 60 to 7500 flashes per minute continuous range.

Flash rate display: Back-lit LCD in either flashes per minute, hertz or milliseconds.

Accuracy: Better than 0.1%.

Flash energy: At least 0.11 J

Trigger sources: Internal, external (3 V to 50 V d.c.) or mains synchronised



View of the back of the Stroboscope

- TecEquipment Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tecquipment.com • **W** www.tecquipment.com
- An ISO 9001 certified company

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infoWERK Medien & Technik GmbH

Martinsbühel 6 / A-6170 Zirl / Austria

Phone: +43 (0) 5238 52099-0 / Fax: +43 (0) 5238 52099-40

E-Mail: info@infowerk.at / Website: infowerk.at

Otto-Dürr-Straße 25

D-70435 Stuttgart, Zuffenhausen/ Germany

Phone: +49 (0) 711 342471-0 / Fax: +49 (0) 711 342471-11

E-Mail: info@de.infowerk.at / Website: infowerk.at