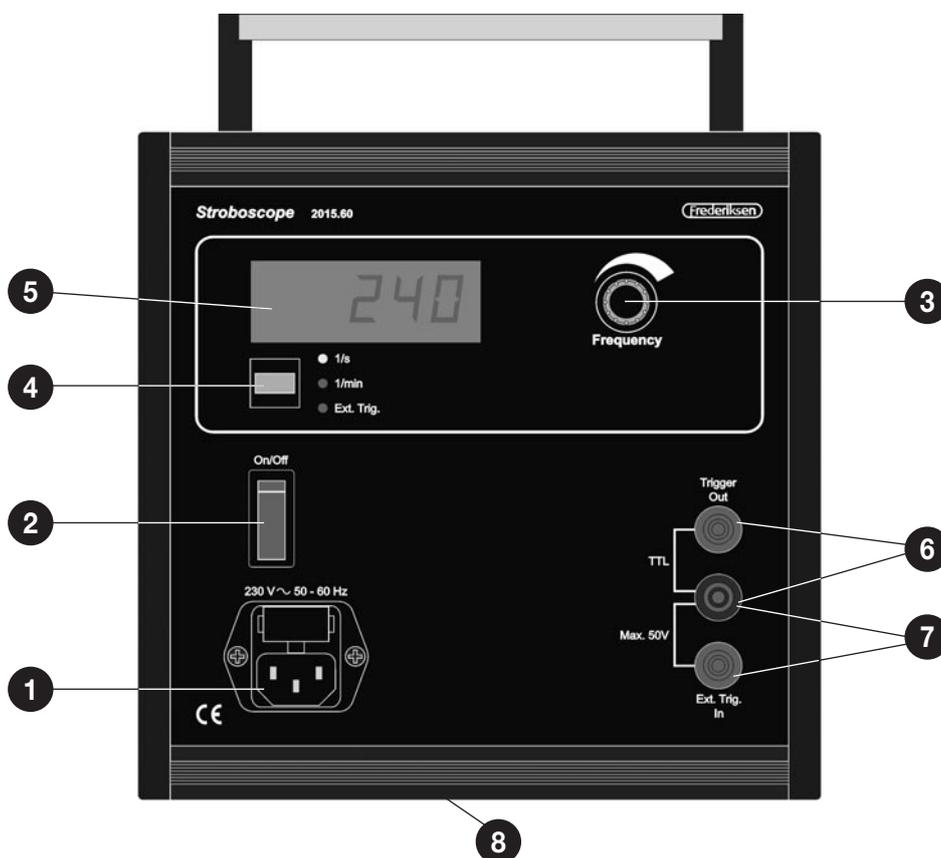


Manual for stroboscope 2015.60

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The stroboscope is suitable for optically freezing of movements, repeated periodically. As the lamp is equipped with a very strong flash tube, the flashes given off are powerful enough for taking photographs. The flash frequency can be read at a long distance, which makes the unit well suited for education purposes. The stroboscope is equipped with a threaded hole for a photo tripod in the bottom.

Pos. 1 Connection for mains cable. The unit is equipped with 1,5 meter grounded cable.

Pos. 2 Mains switch. The switch is equipped with a built-in lamp, which is lit when the unit is turned on.

Pos. 3 Frequency selection. By means of this button the flash frequency can be adjusted from 1 to 300 flashes per second or 60 to 18.000 flashes per minute.

Pos. 4 Function switch. By pushing this button you can switch between reading of flashes per sec., flashes per minute or external triggering. The light emitting diodes show the function engaged.

Pos. 5 Display. Five digit display, indicating number of flashes per seconds or flashes per minute.

Pos. 6 Output connector for internal control signal (trigger signal). Used e.g. if several stroboscopes are to be connected, one lamp controlling the others, or may be used as a signal to another counter. Pulse level 5 volt.

Pos. 7 Input connector for external trigger signal. The flash frequency of the lamp can be controlled externally by pulses with a voltage from 3 to 50 volt RMS. The function switch (4) should be in pos. "Ext. Trig.". The trigger signal is not allowed to exceed 300 Hz, owing to overload of the flash tube.

Pos. 8 The stroboscope has a threaded hole for a photo tripod in the bottom.

General operation

Connect the stroboscope to a 230 V AC mains outlet by means of the supplied power cord. Flip the mains switch (pos. 2) to ON. The switch will light and the stroboscope start flashing and the flash rate will be indicated on the display as flashes per sec. Activate the function switch (pos. 4) if you want to change the display unit to flash per minute. If activated once more the mode will change to external triggering. In the external trigger mode the stroboscope will flash only if an appropriate external trigger (signal) is provided. Push the switch a third time to return the stroboscope to automatic flashing and the display mode to flashes per sec.

The selected mode is always indicated by the LED's to the right of the function switch (pos. 4).

Using the external triggering

This facility (pos. 7) may as previously mentioned be used to synchronise one stroboscope with another, or to synchronize the stroboscope with other equipment. To trigger the stroboscope by means of an external signal, the external signal provided must be a 3 - 50 V RMS pulse. Apply the external signal to the "Ext. trig" terminals (pos. 7) - ground to the black and signal to the red terminal. Set the function switch (pos. 4) to the "Ext. trig." mode. The stroboscope will consequently flash on the falling edge of each trigger pulse.

When operating in the external trigger mode the display shows the flash rate in flashes per sec.

To synchronise the flashes of 2 or more stroboscopes simply use the "Output" signal (pos. 6) from one stroboscope as external trigger for the other units. The first stroboscope in the row controls them all.

Technical specifications

Supply voltage:	230 V AC
Fuse:	250 mA slow
Parabolic diameter:	140 mm
Flash rate:	1-300 flashes per sek. ± 0,05 % 60 - 18.000 flashes per min.
Output sync signal:	5 V.
External trigger pulse:	3-50 V (triggers on the falling edge of pulse).
Dimensions:	240 x 210 x 123 mm
Weight:	2,5 kg

EXTRAS

Photo tripod for stroboscope lamp is available at nr. 5658.52