Sydor Rate of Fire Recorder

The Rate of Fire Recorder processes data collected by rugged detectors such as Sydor's Solid State Blast Switch or Muzzle Flash Switch. The output is the rate of fire in rounds per minute (RPM).

There are two available models. The first is a field-portable version (Model FP), which is NATO codified (NSN 1290-99-537-5255), and enclosed within a case that is constructed of foam filled ABS plastic. The enclosure provides good impact resistance and weather protection, while still maintaining a light weight for portability. The second, designed for indoor use, is the lab/office variant (Model LH). Model FP is positioned on the right and Model LH can be seen on the left in the accompanying photo.

To aid with portability, a rechargeable battery powers the system and provides run times greater than 8 hours with normal usage and printer operation. When battery voltage falls, the printer is automatically switched off to extend the operating time.

The Rate of Fire Recorder also includes a serial interface (RS232) which may be used to output data to a printer, modem,or computer. With a basic front control panel, this unit is simple to deploy and operate.

Features:

- Two designs: Indoor use or portable and rugged outdoor version

- Detects up to 6,000 RPM

- Built-in printer

Applications:

- Portable measurement of service weapon's rate of fire

Product Specifications

Specifications for Model LH

- **Maximum number of shots in burst:** 101
- **Timing Accuracy:** Better than ±1% @ 6000 RPM, ±0.1% @ 600 RPM
- **Self Test:** Comprehensive tests of CPU operation & memory retention etc on power up.
- **Display:** 4 digit seven segment liquid crystal display, number of shots by integer, mean Rate of Fire as integer rpm.
- **Error Display:** Flashing display EEEE to indicate incorrect number of rounds in the burst.
- **Low battery display:** LLLL
- **Battery charging:** Red indicator
- **Menu Switch:** Up to 16 different menus selecting specific combinations of FIRST, LAST number of shots in the burst, printer data, inter-shot time.
- **Push Button Switch:** RESET readies the system for the next burst.
- **Data Output:** Integral printer & serial RS232 interface.
- **Power Supply for External Charger / PSU:** 90 VAC to 264 VAC 50/60 Hz
- **Operating Temperature Range:** 0-50°C
- **Dimensions (w x d x h):** 310 x 320 x 115 mm (12.2" x 12.6" x 4.5")
- **Weight:** 7 kgs (15.4 lbs.), not including detector

Specifications for Model FP

- **Specifications:** Same performance as above
- **Enclosure:** Composite of ABS molded plastic sandwiching rigid polyurethane foam. Gives combination of good impact resistance and protection
- **NATO:** NSN 1290-99-5337-5255
- **Dimensions (w x d x h):** 380 x 270 x 150 mm (15.0" x 10.6" x 5.9")
- **Weight:** 8.5 kgs (18.7 lbs.), not including detector