MS Instruments

FOUR-CHANNEL GPS-SYNCHRONIZED TIMER TYPE 818-300

Simple, Direct Accuracy



HARDWARE/SOFTWARE

- Crystal-controlled chronometer channels each have a time resolution of 100 nanoseconds from channel to channel, producing high accuracy time measurements.
- Four Independent Chronometer Channels each provide velocity or time-of-flight and rate-of-fire.
- Integrated Software Package is available, providing accuracy, velocity, rate of fire.
- Software allows for remote control of the unit, and retrieval of all data, which may be stored to disk and printed out.
- Muzzle Velocity and intermediate velocities are all calculable using the Ballistic Coefficient, where known.

FOUR-CHANNEL GPS SYNCHRONIZED TIMER TYPE 818-300

The Four-Channel GPS Synchronized Timer Unit Type 818-300 is a precise, ARM based Processing instrument, which provides GPS time synchronized measurement of events. A typical application is Velocity/Burst Time measurement.

The timer crystal has ± 1 ppm accuracy and the GPS unit is timesynchronized to better than 300nS to UTC for all timing channels. This unit provides highly accurate and reliable measurements, which enable detailed ballistic analysis to be undertaken in the software.

HIGHLY ACCURATE AND RELIABLE

SPECIFICATION

HARDWARE	
Frequency Standard	 10MHz crystal oscillator Stability of 0.0025% over temp range -20°C - +80°C Long term stability ±0.5ppm Stability. Ageing of ±1ppm per year
Store Capacity	 256 Velocity/Time measurements 257 Rate of Fire measurements
Rate of Fire	6,000 rpm max.
POWER/COMMS	
Power	10V-36V DC
Connections	 Up to Four Detectors Type 858/859/726/768/588/818 Data connection to processor GPS Antenna
ENVIRONMENT	
Operating Temperature	-10°C - +50°C [<i>14 °</i> F - <i>122 °</i> F]
DIMENSIONS	
L x W x H	260mm x 150mm x 90mm [<i>10.2in x 5.9 in x 3.5in</i>]
Weight	2.1kg [4.6lbs]





Optical Detector Type 858

Velocity Screen Type 859





Acoustic Detector Type 588

Flash Detector Type 768



Only the Latest Standards

MS Instruments Ltd.

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The information in this document is correct at the stated time. MS Instruments Ltd has a policy of continuing development and reserves the right to make design changes/improvements to the products.