TRACER IGNITION SYSTEM TYPE 818-050

Simple, Direct Accuracy



Tracer Ignition Detector
Type 818 050



Power Supply Unit Type 818 150



GPS Synchronized Timer Unit



Computer Interface Unit Type 818 200

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The system is used for the detection of tracer ignition and burn distance. The equipment is set out on stands at Pass/Fail intervals down a range with a tracer ignition detector, GPS synchronized timer unit and a power supply at each stand. The tracer ignition detector is mounted on a stand with the detector field of view facing down to the ground so the sun will not cause any problems of not detecting or false triggering. All sensors are connected to a single wire that runs down the range to give power and communication to all timer units. The system can be used to measure the average velocity of the tracer round between two stands. This then gives you the velocity profile of the projectile as it is burning the tracer compound and losing mass down range. It also confirms whether the tracer was still burning as it passed each stand. All systems connect back to the control room and results are shown on the control PC along with data analysis.

HIGHLY ACCURATE AND RELIABLE

SPECIFICATION

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HARDWARE	
	10MHz crystal oscillator
Frequency	Stability of 0.0025% over temp range -20°C - +80°C
Standard	 Long term stability ±0.5ppm Stability.
	Ageing of ±1ppm per year
Store Capacity	256 Time measurements
POWER/COMMS	
Power	110 – 240V ac ±10%
	Up to two Detectors Type 818
Connections	Data connection to processor
	GPS Antenna
ENVIRONMENT	
Operating	-10°C - +50°C
Temperature	[14 °F - 122 °F]
DIMENSIONS/Weight	
See individual Data sheets for more information	

HARDWARE/SOFTWARE

- Crystal-controlled chronometer channels each have a time resolution of 100 nanoseconds from channel to channel, producing high accuracy time measurements.
- Two Independent Chronometer Channels
 Is used for the use of two lane firing.
- Integrate Software Package is available, providing accuracy velocity, rate of fire, accuracy.
- Software allows for remote control of the unit, and retrieval of all data, which may be stored to disk and printed out.

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