SYDOR TECHNOLOGIES



COMPACT VELOCITY

COMPLEX MEASUREMENTS—CRITICAL RESULTS

FEATURES

- Rugged & modular design
- Sensitive to objects less than 4 mm
- Lightweight & portable

APPLICATIONS

- Velocity Measurement
- Ammunition Testing
- Armor Testing

COMPACT VELOCITY SKY SCREENS

The Compact Velocity Screen is a velocity measurement system designed for the detection of projectiles in flight.

Rugged and modular in construction, these screens can sense projectiles < 4 mm in size, traveling at faster than 3,000 meters per second. These velocity screens are simple to operate and provide a reliable solution for measurements taken indoors.

These systems, complete with both screens and light units, are powered by 12v DC for additional range safety. An optional framework can be supplied for easy installation on the range.

Systems such as these are listed as suitable velocity measurement systems within a large number of standards such as: NATO AEP 97 S.12, EN1063, NIJ 0101.06, NIJ 0106.01, STANAG 2920 and AEP55 Part 1. Customers that have ISO 17025 accreditation have purchased these screens for their testing requirements.

PRODUCT SPECIFICATIONS

- Active Window (standard): 640 mm (H) x 360 mm (W), double and triple width available
- Weight (without stand): 7 kg
- Overall Dimensions: 810 mm x 600 mm x 750 mm
- Output Pulse: 0 to 5 V, nominal
- Output Impedance: 50Ω
- Output Rise Time: <50 ns
- Output Pulse Width: 5 ms, nominal
- Sensitivity Control: Continuously variable
- Projectile Sensing: Nose or base of projectile, user specified
- Projectile Size: < 4 mm to 40 mm
- Projectile Speed: 50 m/s to more that 3 km/s
- Controls: Nose/Base Switch & Gain
- Input/Output: Power / Remote Control Input, Pulse Output-BNC, Analog Output-BNC
- Power (Electronic): 10-30 V DC, 100 mA @ 15V DC
- Power (Light Source): 10-30 V DC, 1A @ 24V DC
- Mounting: Any position
- Temperature: -20 °C to + 50 °C
- Modular Construction: Designed to allow the user to configure systems using multiple screens for wider or redundant measurements. The Framework design is versatile and allows the sensors to be fitted in most ranges.

ADDITIONAL EQUIPMENT

- Required: Lightweight Framework on wheels to allow for set base length, Installation Kit, Signal Cable Kit (33 mm as standard), Power Supply Units
- Optional: Heater unit, double or triple width, ultra-compact, and baffles

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