

Velocity Measurement System Specifications

Mechanical

- Overall Dimensions: 12.5" (31.8 cm) deep by 12.5" (31.8 cm) high by 50" long (127 cm), or built to meet specific dimensional requirements.
- Optical path/opening: 10" (25.4 cm) deep by 8" (20.3 cm) high by 48" (121.9 cm) long, or built to meet specific dimensional requirements.
- Lower limit on trap opening: Built to meet customer requirements.
- Machined and extruded aluminum

Electrical

- Collimated visible red laser emitters (4). Detectors (4). One emitter and one detector per beam set.
- Redundant beam sets (two per trap, four total), 1" (2.54 cm) apart.
- DTS unique adaptive signal conditioning electronics.
- One diagnostic LED per beam set (4 total)
- 0-5 volt pulse outputs and built-in LCD velocity readout meter

- Built-in processor for calibration, direct velocity readout and remote access capability
- Ability to select Left to Right, or Right to Left operation
- Ability to select automatic or manual reset
- Built-in battery charger/power supply for 110-volt or 220-volt operation

Accuracy

- Time Base: 1.000MHz internal crystal oscillator (NIST traceable calibration)
- Beam Response: <20 μ Sec
- Overall Accuracy: better than 0.15%, or 0.05MPH (includes dimensional uncertainty, beam response, and electrical accuracy)
- Pulse Outputs: CMOS/TTL compatible, 20mA drive capability
- Digital Readout Resolution: 0.01 MPH, KPH, or M/S
- Digital Readout Full Scale: 9999.99

Specifications may be revised without notice

Diversified Technical Systems, Inc. 909 Electric Avenue, Suite 206 Seal Beach, California 90740 Phone: +1 (562) 493-0158 Fax: +1 (562) 493-3158

Email: sales@dtsweb.com www.dtsweb.com

Revision 7.2002

