



ESD1K.003 LDM SECONDARY ENVIRONMENTAL ENCLOSURE



- **Secondary Environmental Enclosure with Peltier Cooling.**
- **For use with the ELDP and MDHD Family of Laser Distance Meters.**
- **Provides cooling where ambient temperature can reach up to 75°C.**
- **Robust Design Provides Mechanical Protection the LDM.**
- **Adjustable Mounting Platform, provides Vertical and Horizontal Axis Adjustments.**

Features

- Heavy Duty Durable Design
- Provides additional mechanical protection of Laser Distance Meter.
- Adjustable Mounting Platform, providing Vertical and Horizontal Axis Adjustments.
- Thermostatically controlled Peltier Cooling allowing the Laser Distance Meter to be used in areas where the ambient temperature exceed its 55°C rating.
- Over-temperature switch for remote alarm when internal temperature of enclosure exceeds 55°C.
- Side Mounted Junction Box with Terminal Block for all electrical connections to the Peltier Cooling and Laser Distance Meter.

ELDP & MDHD Product Family

- ELDP10 for measurements to a reflector panel at distances over 80M or to natural surfaces up to 20M.
- The MDHD20HT is designed for measurements off of a red hot surface up to 1 4 0 0 °C at distances up to 20M.
- MDHD100 for measurements to a reflector panel at distances up to 800M or to natural surfaces up to 155M.
- MDHD600 for measurements to a reflector panel at distances up to 600M & Glass Prism reflectors up to 1200M.
- Additional Secondary Environmental Enclosures are available including air purged, and water cooled.

Typical Applications

Crane applications in hot areas where the maximum ambient temperature is between 55°C - 75°C.

Furnace applications in hot areas where the maximum ambient temperature is between 55°C - 75°C.

Any Laser Distance Meter application in hot areas where the maximum ambient temperature is between 55°C - 75°C.

Description

The ESD1K.003 Laser Distance Meter Secondary Enclosure with Peltier Cooling provides additional mechanical protection plus Peltier Cooling. The ESD1K.003 allows use of the Laser Distance Meter in areas where the ambient temperature exceeds the specified maximum allowable temperature rating. The ESD1K.003 includes an adjustable Mounting Platform which provides a 20mm Vertical Axis Adjustment and a 20° Horizontal Axis Adjustment during alignment. The Peltier Cooling is thermostatically controlled and is preset to operate when the internal temperature of the ESD1K.003 exceeds 35°C. In addition an over-temperature switch is provided. The NC contact of the over-temperature switch changes state when the internal temperature of the ESD1K.003 exceeds 55°C. This contact can be used to activate a remote alarm. A side mounted Junction Box is provided with a terminal block. This provides easy connection to the Peltier Cooling supply voltage, the internal over-temperature switch, the Laser Distance Meter supply voltage and the 4-20 mA output.

MODULOC[®] Technology - The Total Laser Solution

MODULOC[®] Control Systems Ltd.

Wheathamstead, Hertfordshire, AL4 8SB United Kingdom
Phone: +44 (0)845 873 6501 FAX: +44 (0)158 283 1980
E-Mail: sales@moduloc-intl.com Website: www.moduloc-intl.com

MODULOC[®] Control Systems, Inc.

2808 Broadway Blvd. - Suite 201B, Monroeville, PA 15146 USA
Phone: 412-824-1260 FAX: 412-824-8890
E-Mail: sales@moduloc-usa.com Website: www.moduloc-usa.com

ESD1K.003 Technical Info

Peltier Cooling Supply Voltage	24VDC, 10A
Terminal Block Connections	Peltier Cooling supply voltage
	Internal Over-temperature Switch
	Laser Distance Meter Supply Voltage
	4-20 mA Analog Output
Maximum Ambient Temperature	75°C
Internal Over-temperature Switch Setting	55°C
Dimensions	335mm High x 15mm wide x 425mm Long
Weight	13 kg (without the LDM)

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We reserve the right to alter specifications without prior notice. Specifications without tolerances are typical values.