

Technical Specifications

ELIAR THT125

MEASUREMENT

Temperature

Measuring range	-40 ... 125 °C
Accuracy	± 0.2 °C (typical) ± 0.5 °C (max)
Repeatability	0.1 °C

Relative Humidity

Measuring range	0 ... 100 %RH
Accuracy	± 2 %RH (typical) ± 2.5 %RH (max)
Repeatability	0.2 %RH

ELECTRICAL

Analog Outputs

Resolution	12-bit
Temperature, Relative humidity	4 - 20 mA
Accuracy	± 0.3 %
Sampling time	500 ms
Maximum load impedance	600 Ω

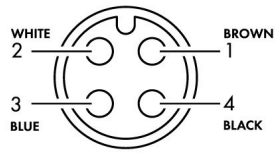
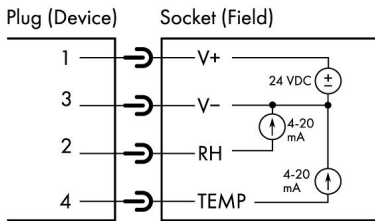
Power

Supply	18 ... 30 VDC
Maximum power consumption	1.2 W @ 24 VDC
Reverse polarity protection	Yes

GENERAL

Ambient temperature	0 ... 55 °C
Storage temperature	-20 ... 70 °C
Enclosure protection rating	IEC 60529, IP67
Electromagnetic compatibility	IEC 61326, Class B
Weight (including probe)	0.68 kg
Environmental testing	IEC 60068

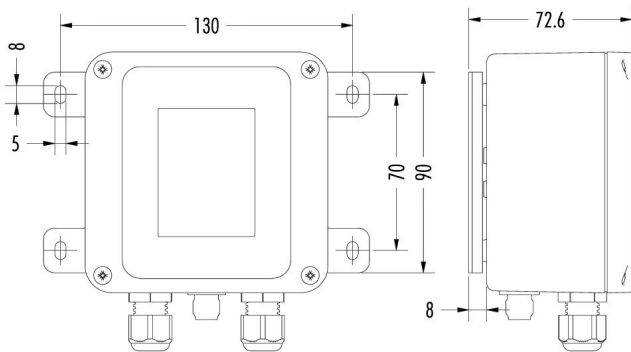
ELECTRICAL CONNECTION



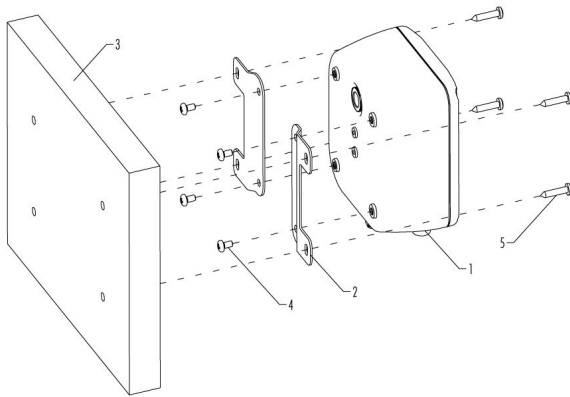
Pin	Signal	Color	Description
1	L+	Brown	Supply voltage + (18 to 30 VDC / min. 1.5 W)
2	IO2	White	mA output Relative humidity
3	L-	Blue	Supply voltage -
4	IO1	Black	mA output Temperature

* M12 connector, connection diagram

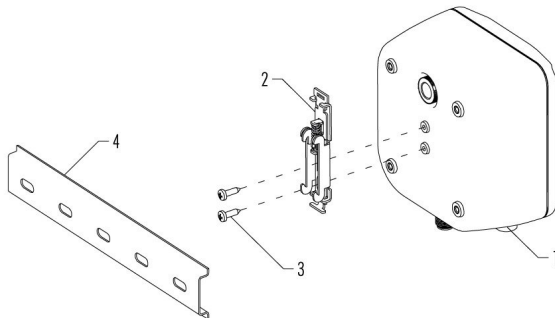
MOUNTING



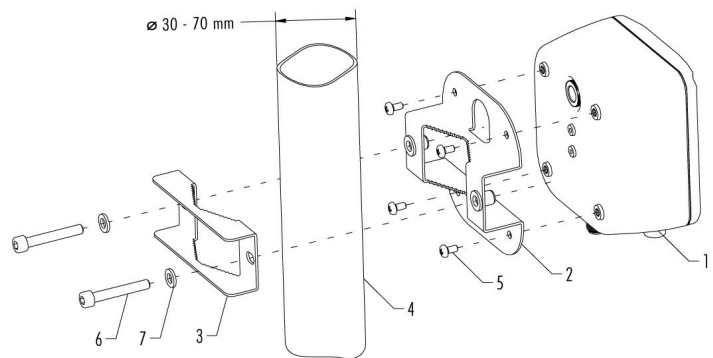
* Wall mounting bracket hole dimensions.



* Wall mounting of transmitter device with mounting bracket.
 (1) Transmitter device (2) Wall mounting bracket (x2) (3) Wall - panel
 (4) M4 x 8 screws (x4) (5) ST 4.2 self tapping screws (x4)



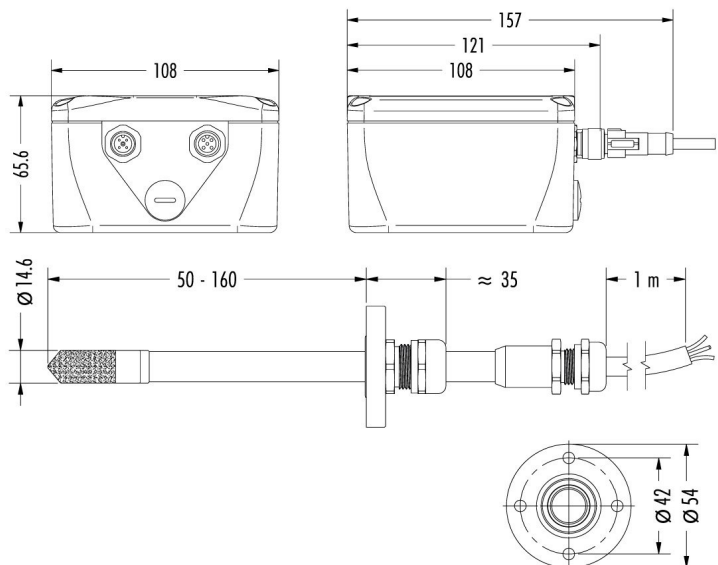
*DIN rail mounting of transmitter device.
 (1) Transmitter device
 (2) DIN rail mounting bracket
 (3) ST 3.5 self tapping screws (x2)
 (4) DIN rail (TS-35)



* Pole mounting of transmitter device.

- (1) Transmitter device
- (2) Pole mounting bracket - A
- (3) Pole mounting bracket - B
- (4) Pole (30 mm ≤ Dpole ≤ 70 mm)
- (5) M4 x 8 screws (x4)
- (6) M5 hexagon socket head screws (x2):
 - M5x30 if 30 mm ≤ Dpole ≤ 45 mm
 - M5x40 if 45 mm ≤ Dpole ≤ 55 mm
 - M5x55 if 55 mm ≤ Dpole ≤ 70 mm
- (7) M5 washers (x2)

DIMENSIONS



* Transmitter device and probe dimensions in mm