

## ESO-R 200

### Environmental Sensor Outdoor – Rice Temperature

**Temperature sensor - ESO-R 200. (Rice temperature sensor) is designed to monitor temperature inside bags / boxes containing materials.**

**The ESO-T has and handheld grip to introduce the measurement rod inside the measured object. The sensing part is located at the opposite end of the rod.**

**It connects to EMOS 200LH via one of its sensor interfaces.**

#### Features

- Measure temperature with high precision sensor element -20 to 60 °C.
- Sensor rod 25 cm
- Energy autarkic operation
- Measurement wake up cycle configurable from 2 – 15 minutes



TYPE  
**ESO-R 200**

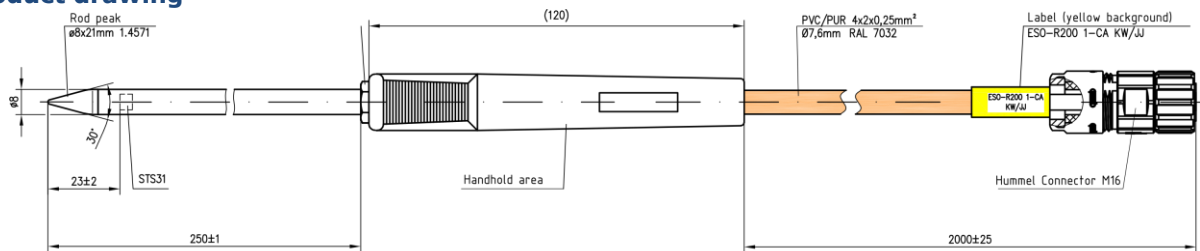
ORDERING CODE  
**H6095-R200**

#### Features changes

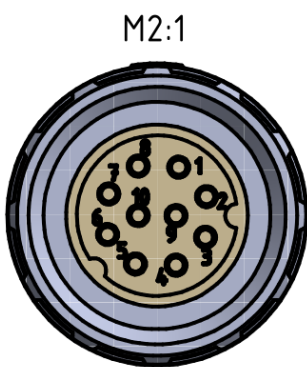
<b>Used internal Sensor</b>	STS-31 Sensirion
<b>Length of sensor rod / probe</b>	25 cm
<b>Measurement Range</b>	-20 to 60 °C
<b>Measurement Resolution</b>	0,1 °C
<b>Measurement Accuracy</b>	±0.2 °C
<b>Sensor Data format</b>	GSI with conversion to GP @ EMOS (NOTE 1)
<b>GSI Sensor Type</b>	Trigger Sensor (not powered constantly)
<b>GP Data Channel Temperature</b>	IDX:0 (12 bit, 0.15 °C step size)
<b>Sensor Product ID (6 bytes)</b>	E0: Manufacturer ID 0007: Product ID CCCCC: Unique Sensor ID
<b>Protection class</b>	IP 67 Rod / IP 54 Handheld
<b>Cable length</b>	2000 mm +- 25 mm
<b>Operating Temperature</b>	-20 °C ... +60 °C

NOTE 1: For details see Generic Sensor Interface Specification.

**Product drawing**



**Connector Pin Assignment**



Pin configuration M16:

- Pin 1 = VDD\_Switched
- Pin 2 = VDD\_Permanent
- Pin 3 = SCL
- Pin 4 = GND
- Pin 5 = Sensor TRQ
- Pin 6 = GND
- Pin 7 = SDA
- Pin 8 = GND
- Pin 9 / 10 = Shortcut in connector

**Label on Packaging**



Date Code "KW/JJ": e.g. 04/18  
 Step Code „YY": e.g. DA  
 Order Code: H6095-R200

Date code on product refers to production date, date code on packaging refers to packaging date. There can be 1-3 days difference between these process steps.

**Packaging Information**

Each ESO-R is individually packet in a plastic protection 240x170mm. Sensor cable is rolled and fixed with rubber band.