

## ESO-S 2xx

**ESO-S 2xx is a specially designed temperature sensor with measurement probe designed for operation in casks.**

**ESO-S 2xx is connects to EMOS 200LH via its sensor interfaces.**

### Features

- Measure temperature with high precision sensor element -40 to 60 °C.
- Variable Sensor rod 150 cm / 210 cm or other
- Optional detachable collet for mounting
- Energy autarkic operation



TYPE  
**ESO-H 2xx**

ORDERING CODE  
**H6095-H2xx**

### Features changes

<b>Used internal Sensor</b>	STS31 Sensirion
<b>Length of sensor rod / probe</b>	150 cm, 210 cm or other
<b>Stainless steel material standard</b>	EN - 1.4571 / AISI 316 Ti
<b>Mounting option</b>	Detachable collet optional
<b>Measurement Range</b>	-20 to 75 °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 0008: Product ID (1,5m rod) 0009: Product ID (2,1 m rod) CCCCC: Unique Sensor ID
<b>Cable length</b>	2000 mm +- 25 mm
<b>Protection class</b>	IP 67 Rod / IP 66 Handheld
<b>Operating Temperature</b>	<b>-20 °C +75 °C</b>

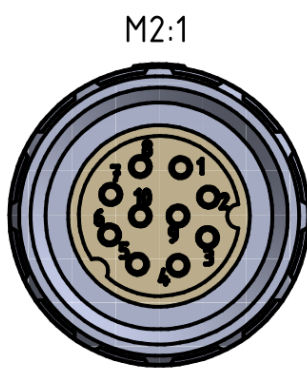
NOTE 1: For details see Generic Sensor Interface Specification.

### Stainless steel classification

Composition:	Nickel Chrome Molybdenum steel
Category:	Stainless steels, resistant to rust and acids
Corrosion:	resistant to intercrystalline corrosion high corrosion resistance satisfactory against pitting corrosion
Typical applications <sup>1</sup>	Food processing equipment Brewery equipment Chemical and petrochemical equipment Laboratory benches & equipment Coastal architectural panelling Coastal balustrading Boat fittings Chemical transportation containers Heat exchangers Mining screens Nuts and bolts Springs Medical implants

### Pin Assignment

See Generic Sensor interface specification for details. Short overview listed below.



#### Pin configuration M16:

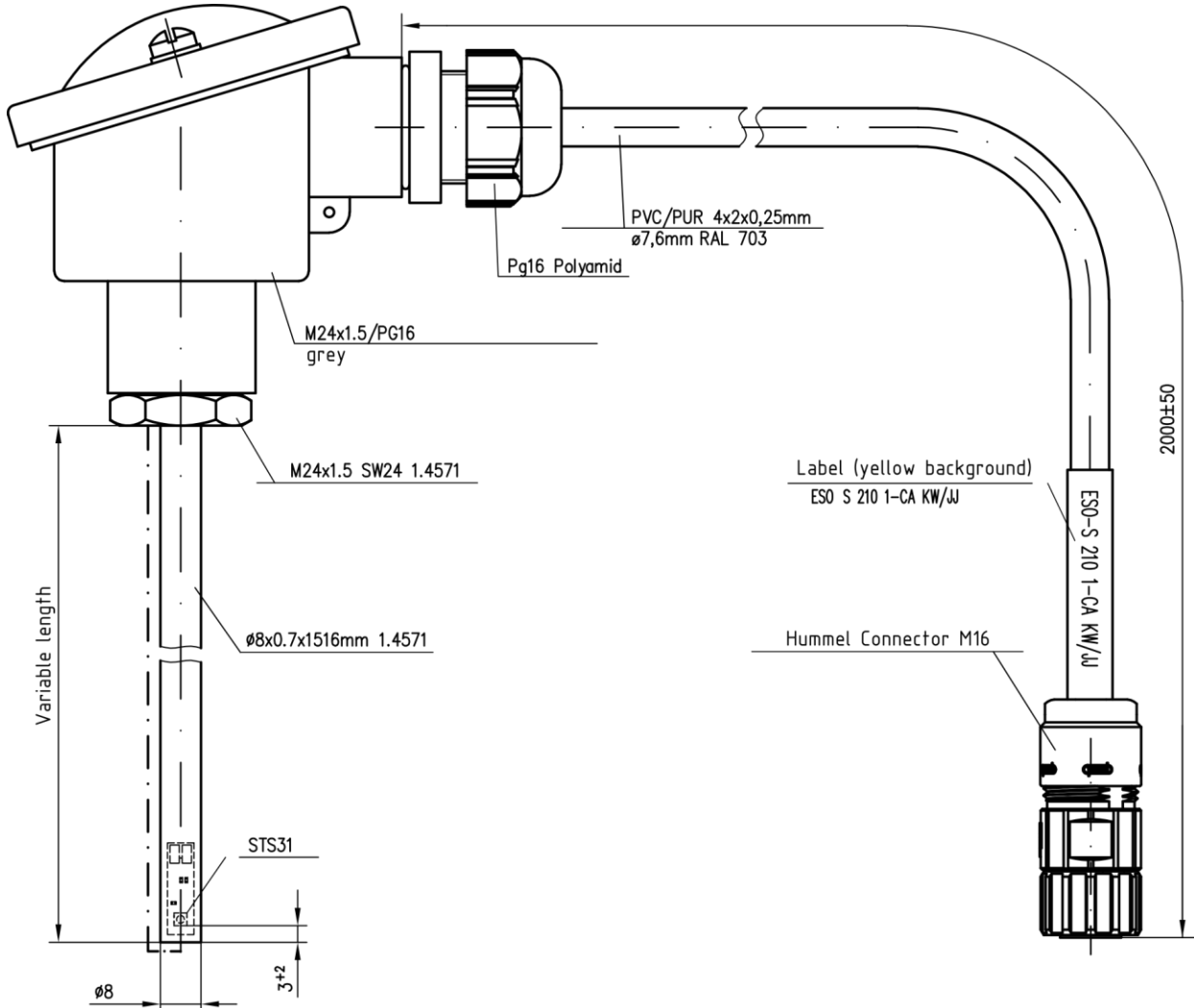
- Pin 1 = VDD\_Switched
- Pin 2 = VDD\_Permanent
- Pin 3 = SCL
- Pin 4 = GND
- Pin 5 = Sensor TRQ
- Pin 6 = GND
- Pin 7 = SDA
- Pin 8 = GND
- Pin 9 / 10 = Shortcut in connector

### Packaging Information

Each ESO-S is individually packet in a card box.

<sup>1</sup> Source: 14.06.2017 - [http://www.aalco.co.uk/datasheets/Stainless-Steel-14571-Bar\\_40.ashx](http://www.aalco.co.uk/datasheets/Stainless-Steel-14571-Bar_40.ashx)

**Product Drawing variable rod (without detachable collet):**



**Product Drawing detachable collet:**

