

HB Products – dedicated to optimal solutions for level measurement and control of oil and refrigerants.

HB Products is a development-oriented company, which specializes in the development and production of sensors for industrial refrigeration systems. Apart from expertise within oil and refrigerant control, we have great know-how in the design and optimization of industrial refrigeration systems. This knowledge enables us to develop and produce the best sensors!

Since its start more than 25 years ago, HB Products has attained a strong global position. This is the result of our ability to think in terms of new technological solutions, create

For further info and guidance please visit our homepage
www.hbproducts.dk

**Quick guide**

HBTS - Temperature Sensor

**Functionality:**

The HBTS sensor is made to detect refrigerant temperature in refrigeration systems. If the temperature sensor is to be used in a different way, prior approval must be obtained from HB Products.

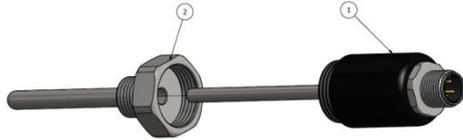
Download complete manual:

For further information please download the instruction manual from our homepage:
www.hbproducts.dk.

Caution:

Only qualified personnel should work with the product. The technician must be aware of the consequences of an improperly installed sensor, and must be committed to adhering to the applicable local legislation.

Mechanical installation



Mechanical specifications:

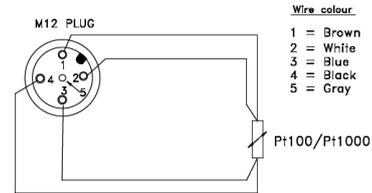
Refrigerant type: R1234, R22, R134A, R404A, R410A, R507, R717 & R718
Oil type: PAO, PEO, PAG & mineral
Ambient temperature: -30...+85°C
Liquid temperature: -50...+130°C
Max. pressure: 150 bar
Material, mechanical: AISI304
Thread connection: ¼" NPT / BSPP
Sensor element: 6 mm
Sensor element length: 60 & 90 mm

Spare parts:

Pos 1: Electronic part – see part number in extended instruction manual
Pos 2: Mechanical part – see part number in extended instruction manual

Caution! In case of welding work on the unit, please make sure that proper earthing is carried out to avoid damaging the electronics.

Electrical installation



Wire colour
1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray

Electrical specifications:

Sensor type: PT100 or PT1000
Sensor element: DIN EN 60751, Class B - 1/3 – 4 wire
Plug: M12 - DIN 0627
Enclosure: IP67

Accessories:

Cable: 5 m with M12 plug in one end
Part number: HBxC-M12/5