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

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Quick guide
HBTS-TR - Temperature Transmitter

Functionality:
The HBTS-TR transmitter/sensor is made to detect refrigerant temperature in refrigeration systems. The sensor has a predefined temperature range from -50°C to 150°C and delivers an analog output linear to the temperature. The range can be modified using the HB-tool to obtain higher granularity
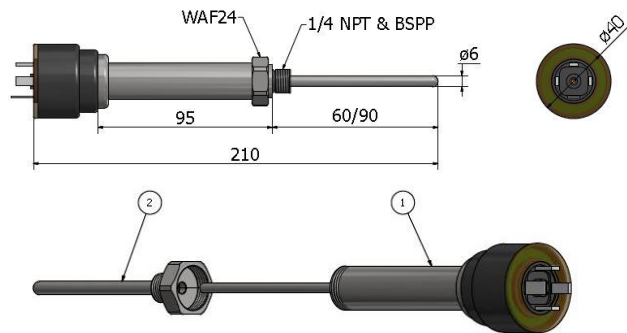
Download complete manual:
For further information please download the instruction manual from our homepage:
www.hbproducts.dk.

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.

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Mechanical installation
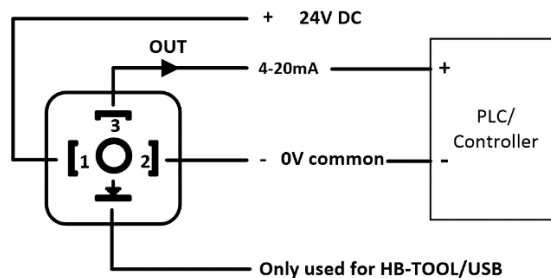
WAF24 — 1/4 NPT & BSPP

ø6

ø40

95   60/90

210

② ①

Mechanical specifications:
Liquids: all common
Ambient temperature: -30…+50°C
Media temperature: -50…+130°C
Max. pressure: 150 bar
Material, mechanical: AISI304
Thread connection: ¼" NPT / BSPP
Sensor well: OD 6 mm
Sensor element length: 60 & 90 mm

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

Electrical installation

+ 24V DC
OUT
4-20mA
- 0V common

3
[1 ○ **2]**

PLC/Controller

Only used for HB-TOOL/USB

Note: Special USB cable and adaptor/converter plug is needed for scaling the temperature measuring range.

Electrical specifications:
Sensor output: 4-20mA
Sensor type: PT1000
Sensor element: DIN EN 60751, Class B - 1/3
Plug: DIN 43 650
Enclosure: IP65

Accessories:
1. Converter Plug M12/TR
2. HB-USB cable