



## Liquid Level sensor HBLT wire sensor



A successful solution for level indication is the HBT the wired sensor , this sensor is easy to install and is suited with a separate electronically head and measurement sensor.

HBLT-wire is a capacitive sensor for level measurement of NH3 refrigerant in industrial refrigeration systems.

The sensor has an output signal of 4-20 mA, which is proportional with 0 and 100%. Its output signal is 4 mA for an empty tank and 20 mA for a full tank.

It can be used as a level sensor, or it can be used as a combined level sensor and direct P-regulator of modulating valves e.g. level regulation in a chiller or plate heat exchanger

Adjusting to your situation:

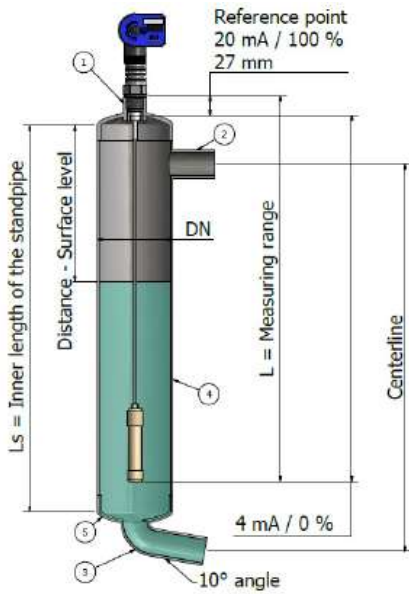
HBLT-wire can be adjusted in length to the current application.

The sensor element consists of a 2mm steel wire as well as a Teflon tube.

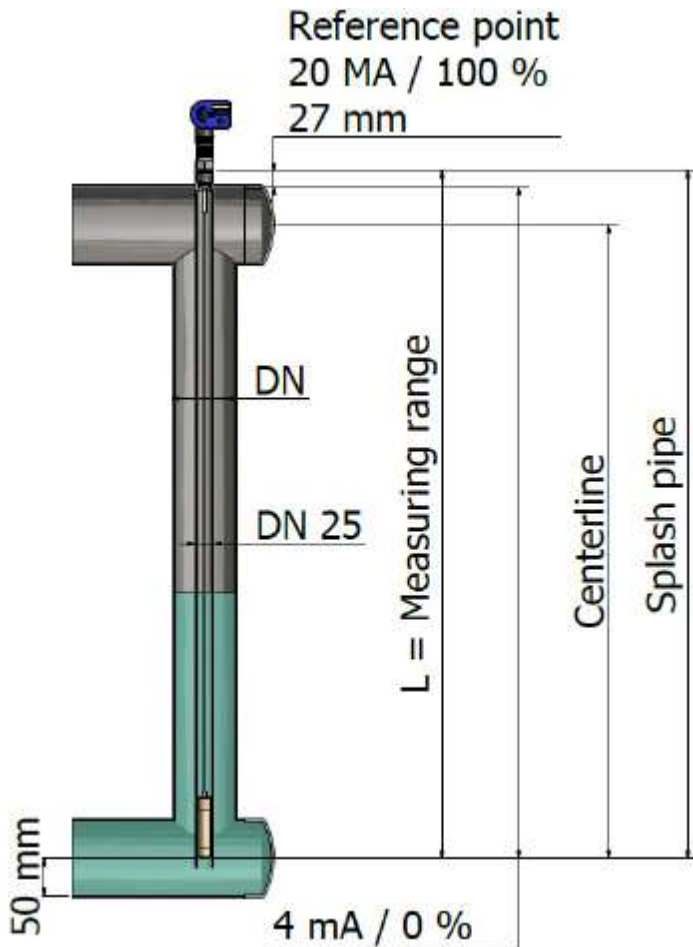
Both parts are provided with a length of 4m and can be shortened with diagonal cutters or other pliers.

In cases where the customer wanted to configure the sensor, the target of a maximum of 5 minutes was achieved. There are only two parameters to set up in order to use the sensor for level measurement, which is a process that can easily be carried out in less than 5 minutes

To install: our recommendation is to install the sensor with a minimum of 50 mm from the bottom of the measuring pipe.



-Installing the HBT wire sensor in **turbulent liquid bath** ?  
 Use a guiding pipe – the sensor must be calibrated for the guidance pipe.





<b>Technical details and features HBT-wire sensor</b>	
<b>Connection</b>	<b>¾ inch BSP or ¾ inch NPT</b>
<b>Refrigerant</b>	Designed for NH3 and HFC refrigerants : R22-R134A, R404A, R410A, R507 & R718
Suitable for <b>Marine applications</b>	The <b>measuring wire is coated with Teflon</b> , therefore <b>no measuring fault</b> due <b>contact with tank nor pipe</b> possible and <b>suitable</b> for sailing in rough water on vessels.
<b>Configuration</b>	Easy configuration for <b>refrigerant and length</b>
<b>Split Design</b>	The electronic part and measuring wire are separate for easy install and service
<b>Sensor</b>	The wire is <b>adjustable in length of 600 to 4000 mm</b> . easy to calibrate.
<b>Dead zone</b>	<b>0 mm</b>
<b>Led display</b>	Showing <b>liquid level in percentage</b>
<b>Alarm out put</b>	1 alarm can be set between <b>10 till 100%</b>
<b>P-regulation of valve</b>	The possibility for direct regulation of modulation valves, pilot valves of step motor valves

The HBLT-Wire sensor has been designed in a special way for easy installation and service.

Thus has been achieved by :

- No requirements for 0% or 100 % calibration
- No requirements for dead zone elimination
- A very low installation height (< 200 mm)
- Split design for easy troubleshooting
- Quick configuration of alarm outputs and sensor length
- The calibration can ordered by purchase by indication of the sensor length and refrigerant or configured easy on site.

<b>HB L-T wire sensor</b>	
Adjustable length	yes
Configuration of parameters	yes by PC
Dead zone ( Bottom )	0 mm
Installation height required	115 mm
Require preparation before installation	No , can be ordered at fixed length at no additional cost
Required accessories for set up	Free software tool
Time for configuration	Less than 5 min.
Time for calibration	Time for calibration
Require 0% calibration	No
Require 100% calibration	No
Comes standard with display	yes