

## Triple Sensor HLT 1300

### Linear Position + Pressure + Temperature

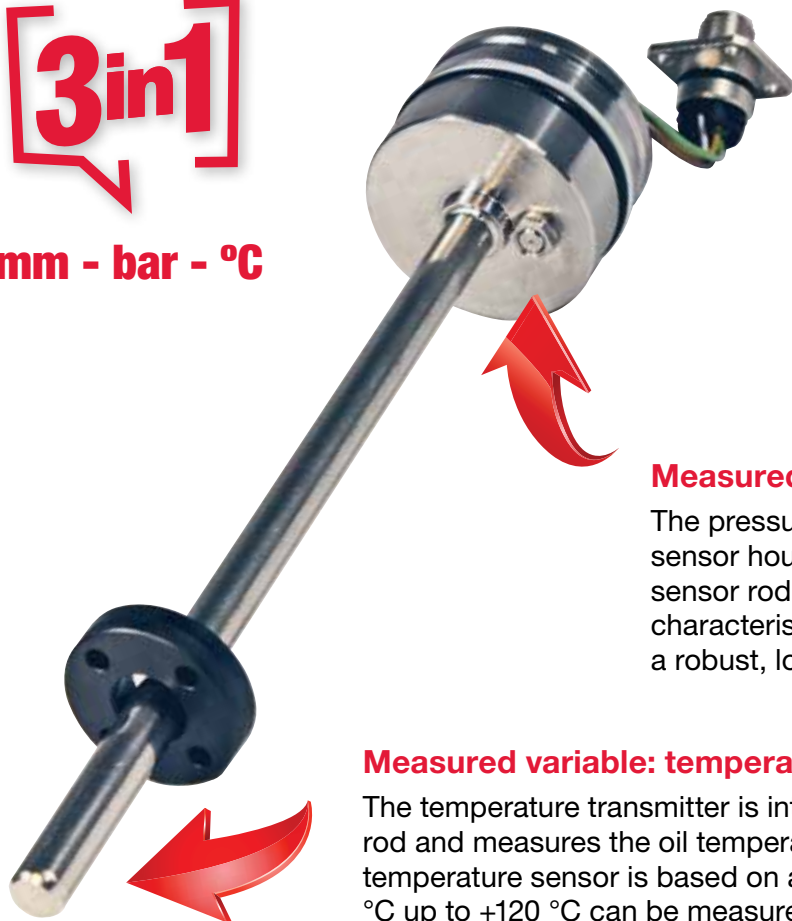
#### Description

The linear position transmitter HLT 1300 with integrated pressure and temperature measurement function has been specially developed due to the growing demands in the field of linear position measurement.

The measured values such as linear position, pressure and temperature are simultaneously digitized and made available to the CAN field bus system via the CANopen Safety protocol in a highly dynamic and safe way.

**[3in1]**

**mm - bar - °C**



#### Measured variable: distance, functionally safe

The sensor works on the principle of magnetostriction which enables the highly precise determination of the distance / the position. There is also a version developed specifically for use in safety circuits / safety functions as part of the functional safety of machinery and equipment up to SIL 2 (IEC 61508) or PL d (ISO 13849).

#### Measured variable: pressure

The pressure transmitter is integrated inside of the sensor housing and measures the pressure at the sensor rod. The sensor combines excellent technical characteristics. A strain gauge sensor cell is the basis for a robust, long-life pressure transmitter.

#### Measured variable: temperature

The temperature transmitter is integrated inside of the linear position sensor rod and measures the oil temperature inside of the hydraulic cylinder. The temperature sensor is based on a semiconductor sensor. Temperatures of -40 °C up to +120 °C can be measured.

Functional safety  
PL d  
SIL 2

CANopen  
SAE J1939