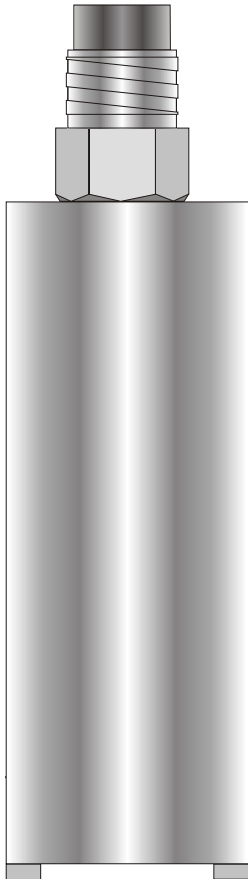


# Pressure Transmitter



## Features



This pressure transmitter has been designed for applications in corrosive liquids and gases and allows stable precise measurements of the absolute pressure up to 1000 bar.

The pressure sensor is a piezoresistive full bridge OEM-transducer of high sensitivity manufactured by Keller, a swiss company. The transducer as well as its diaphragm is made of stainless steel AISI 316/316 L and built in a pressure resistant housing of titanium. The transducers have associated SMD amplifiers with temperature compensation in the range of 0°C to 50°C.

Connection to a data acquisition system can be realized in two wire transmitter technique 4 - 20 mA or three wire technique 0 - 10 volt via a 4 pole underwater connector.

Each transmitter is shipped with an individual calibration certificate. Calibration is executed with a pressure gauge as secondary standard with 0,025 % accuracy.

## Specifications

Available ranges: 5, 10, 20, 50, 100, 200, 400, 600, 1000 bar

Accuracy: Class 0,5 % (calibration of manufacturer)

Temperature compensation: 0°C - 50°C

Accuracy with individual calibration: 0,2 % (refer to calibration sheet)

# Technical Data

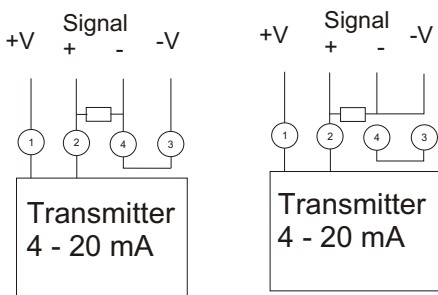
## Mechanical characteristics:

Total length (with SUBCONN BH4F): 128 mm  
 Diameter: 40 mm  
 Weight in air: 0,4 Kg  
 Standard connector : SUBCONN BH4F Titanium or MCBH4F Titanium  
 Pressure resistance of housing: 1000 bar  
 Pressure resistance of connector : 1000 bar  
 Connection to a pressure gauge : female thread G1/4 ISO 228-1, depth 13mm  
 Sealing: 2 O-rings 20 \* 2 mm

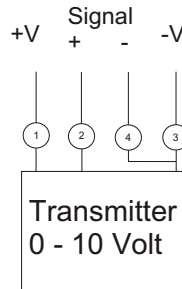
## Electrical characteristics

Excitation: 8 - 28 VDC  
 Signal: 4 - 20 mA or 0 - 10 VDC  
 Max. Load resistance:  $(U-10)/0,02$  Ohm  
 Current consumption: < 4 mA (no load)  
 Insulation: >100 MOhm

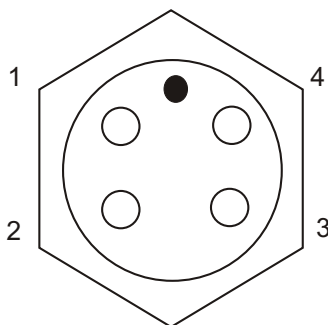
### 2 wire transmitter 4 - 20 mA



### 3 wire transmitter 0 - 10 Volt



## Connector pin assignment



### 2 wire transmitter 4 - 20 mA

**Connector BH4F**  
 Pin 1 + V Excitation  
 Pin 2 - V Excitation  
 Pin 3  
 Pin 4

### 3 wire transmitter 0 - 10 Volt

**Connector BH4F**  
 Pin 1 + V Excitation  
 Pin 2 + I Signal  
 Pin 3 - V Excitation  
 Pin 4 - I Signal

## Environmental characteristics

Storage temperature: -45°C - 80°C  
 Operating temperature: -30°C - 65°C  
 Vibration: < 10g (20 - 2000 Hz)

Sea & Sun Technology reserves the right to change the specifications of the products described on this paper in the interest of technical progress at any time without notice.