

### Technical description

TA Link is the link between the waterborne heating/cooling system and the building's monitoring system (BMS).

TA Link continuously measures the differential pressure across TA's balancing valves. The output signal is proportional to the differential pressure.

TA Link incorporates a safety valve that protects it against excessive differential pressure when connecting/disconnecting the unit. It also has measurement probes for direct connection to the measurement points on STAD and STAF valves.

**Range:**  
0-100 kPa

**Pressure class:**  
PN 25

**Max. differential pressure:**  
5 bar

**Temperature:**  
Max. working temperature: 80°C  
Min. working temperature: -15°C

**Output signal:**  
4-20 mA

**Accuracy:**  
<±1.0 kPa

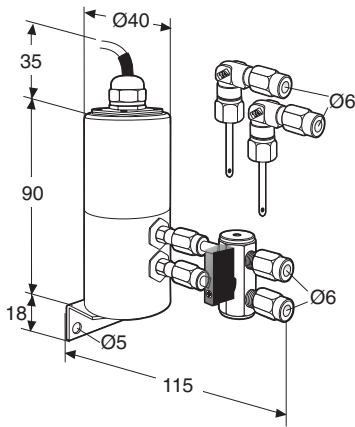
**Power supply:**  
11-33 VDC

**Response time:**  
< 5 ms

**Protection class:**  
IP 65

**Material:**  
Sensor housing of stainless steel X8CrNiS18-9 (No 1.4305 EN 10 088-3).  
Ceramic membrane.  
EPDM seal.

## TA Link (4-20 mA)



TA No	Range
52 110-010	0-100 kPa

## Valve characteristics

The valve characteristics of TA's valves are available on diskette, conversion disc, catalogue sheet and internet.

## Electrical connection

Electrical connection is by means of a 1.5 m long 2-core cable. Core colours are as follows:

**Brown:** 11-33 VDC

**Green:** 4-20 mA output signal, proportional to the differential pressure. Load: not more than 650  $\Omega$  (at 24 VDC)

## Connection to measurement points

### Safety valve

The safety valve must be in position **B** when connecting and disconnecting the unit.

**Note:** This opens the valve between P1 and P2. When measuring, the safety valve must be in position **A** to bring the sensor into operation.

### Pressure connections

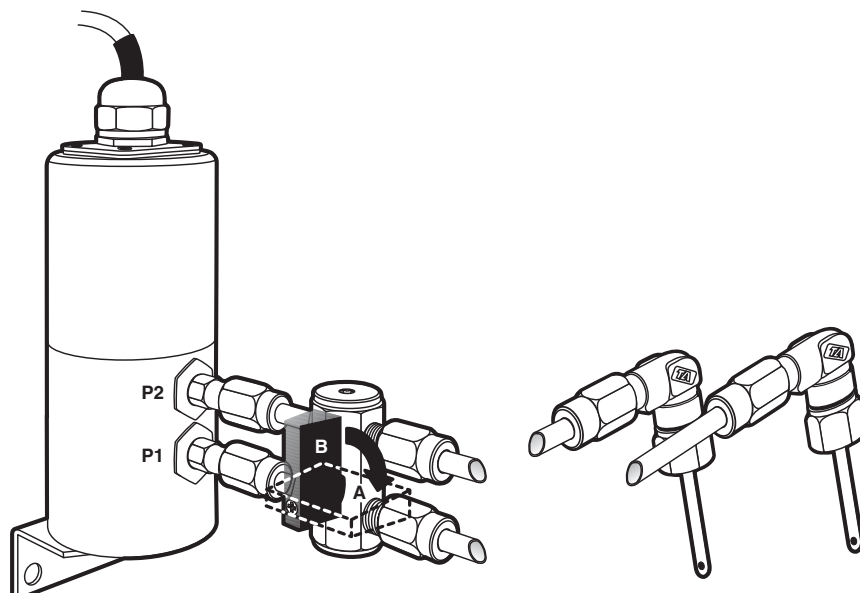
Connect the *red connection* (P1) to the higher pressure (i.e. upstream of the balancing valve). Connect the *blue connection* (P2) to the lower pressure (i.e. downstream of the balancing valve). The connections have compression couplings for 6 mm (O.D.) copper pipe. (Pipe is not included).

### Calibration

The sensor has been calibrated when supplied.

### Venting

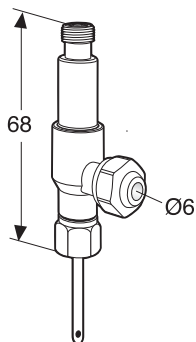
The sensor must be vented in order to ensure correct measurement accuracy. When venting, the safety valve must be in position **B**. Continue the venting until the pipes to and from the sensor is filled with water.



## Accessories

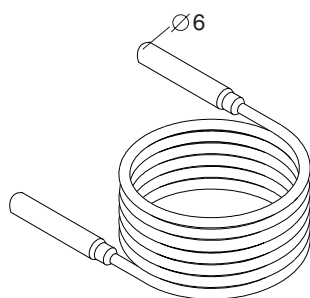
### Measuring point, two-way

For connection of 6 mm copper pipe while permitting simultaneous use of TA-CBI



TA No
52 179-100

### Capillary pipe



TA No	L
52 010-901	1 m

