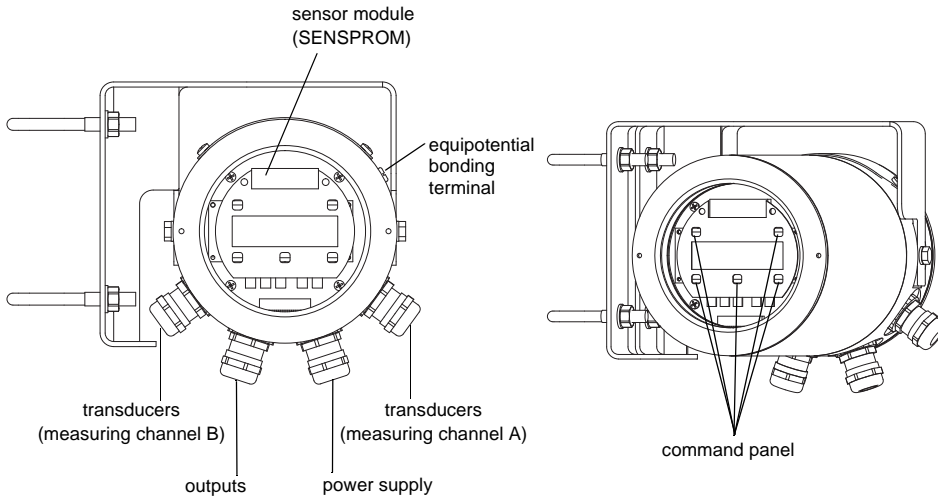


**Attention!** Observe the "Safety Instructions for the Use in Explosive Atmosphere" (see document SIFLUXUS).

### Transmitter



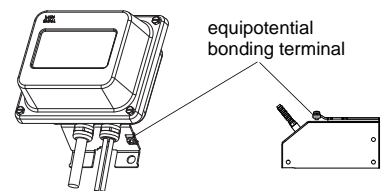
### Sensor module

The supplied sensor module (SENSPROM) has to be connected to the corresponding terminals of the transmitter. The serial numbers of the sensor module and the transducer must be identical.

### Command panel

Command panel with magnetically sensitive elements for the operation with magnetic pen.

### Equipotential bonding terminal on transducer and junction box



### Connection of transducers

**Attention!**





For good high frequency shielding, it is important to ensure good electrical contact between the external shield and the cap nut (and the housing).

### Connection to transmitter

terminal	extension cable
AV	white or marked cable (core)
AVS	white or marked cable (internal shield)
ARS	brown cable (internal shield)
AR	brown cable (core)

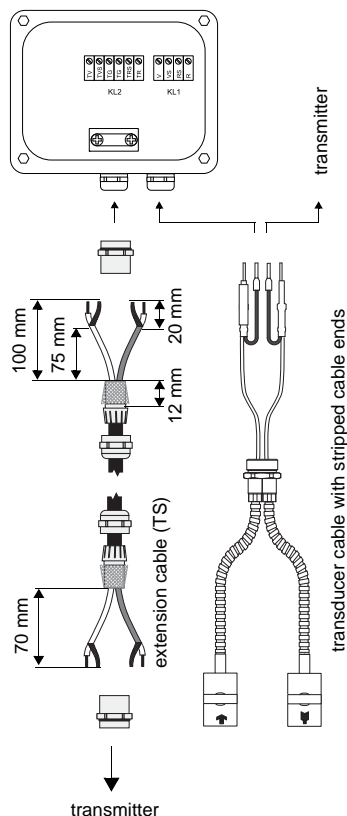
### Connection to junction box

terminal	extension cable
TV	white or marked cable (core)
TVS	white or marked cable (internal shield)
TRS	brown cable (internal shield)
TR	brown cable (core)

terminal	transducer cable with stripped cable ends
V	transducer  (brown cable, marked white)
VS	transducer  (red cable)
RS	transducer  (red cable)
R	transducer  (white cable)

### Direct connection or connection via junction box

junction box JB01



### Connection of the outputs

terminal	
1(-), 2(+)	current output I1
3(-), 4(+)	current output I2
5(-), 6(+)	binary output B1 (open collector)
7(-), 8(+)	binary output B2 (open collector)
9(a), 10(b)	binary output B3 (Reed relay)
11(a), 12(b)	binary output B4 (Reed relay)
13(B-), 14(A+)	RS485

### Connection of the power supply

terminal	connection AC
PE	earth
N	neutral
L1	phase 100...240 V/50...60 Hz

terminal	connection DC
PE	earth
L-	-DC
L+	+DC

The voltage is indicated on the plate below the terminal strip.

**Parameter input**

>PAR< mea opt sf  
Parameter



**Output options**

par mea >OPT< sf  
Output options



**Start measurement**

par >MEA< opt sf  
Measurement



Parameter ↓  
for Channel A:



Output options ↓  
for Channel A:



CHANNEL:>A<B Y Z  
MEASUR ✓ - . .



Select the channel.

Select the channel.

Select and activate the channel.

Outer Diameter  
70 mm



Enter the outer pipe diameter.

Physic. Quant. ↓  
Volume flow



Select the physical quantity.

A: Sound Path  
2 NUM



Confirm the value.

Wall Thickness  
2.5 mm



Enter the pipe wall thickness.

Volume in: ↓  
m3/h



Select the unit of measurement.

Transducer distance  
A:60.1 mm Reflec



The recommended transducer distance is displayed.

Pipe Material ↓  
Carbon Steel



Select the pipe material.

Damping  
3 s



Enter the damping.

Lining  
>NO< yes



Is pipe lining present?

Store Meas.Data  
no >YES<



Store measured values?

Roughness  
0.5 mm



Enter the roughness.

Serial Output  
no >YES<



Output via serial interface?

Medium  
Water



Select the medium.

Storage Rate ↓  
Once per 10 sec.



Select the storage rate.

Medium Temperat.  
22.0 C



Enter the medium temperature.

Pulse output  
B1: no >YES<



Activate the pulse output.

S=■■■■■  
A: ■→■ = 54 mm



Shift the transducers until the LED lights green.

Fluid pressure  
1.00 bar (a)



Select the fluid pressure.

INFO: max flow=  
225.0 m3/h



The max. flow is displayed.

Transducer distance  
54 mm



Measure and enter transducer distance a.

Transducer Type ↓  
Standard



Select the transducer type.

Alarm output  
>NO< yes



Activate the alarm output.

A:Volume flow  
54.5 m3/h

**Measurement**

Additional cable  
0.0 m



Enter the length of the extension cable.

**Navigation**

- 5 keys below the display
- operation with closed housing: touch magnetically sensitive elements with the magnetic pen
- scroll to the left or downwards: key
- scroll to the right or upwards: key
- stop the measurement and return to main menu: key BRK
- scroll to the left and delete: key CLR

**Channel**

√ : channel is activated  
- : channel is deactivated  
· : no parameters

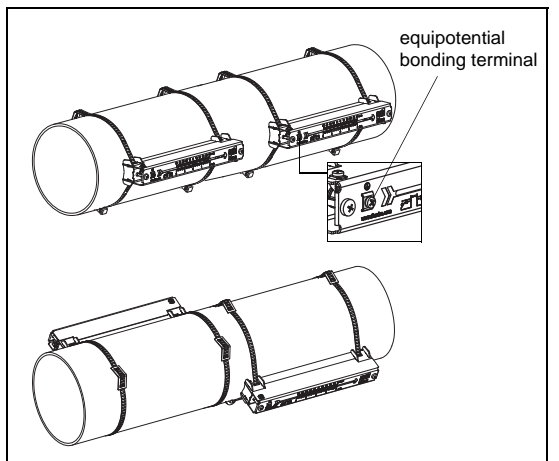
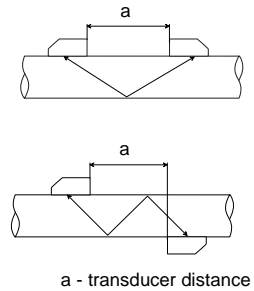
- select the channel: key
- activate the channel: key

**Notes on transducer mounting**

- Observe the recommended distance between the measuring point and the disturbance point.
- Clean the pipe.
- Use coupling foil or apply a bead of acoustic coupling compound to the contact surface of the transducers.
- Mount the transducers laterally to the pipe, if possible.

**Input of sound path**

- **sound path (even number):**  
The transducers are mounted on the same side of the pipe.
- **sound path (uneven number):**  
The transducers are mounted on opposite sides of the pipe.



**Note!**

When the transducers are mounted correctly, the engravings on the transducers form an arrow.

