8223

+7 (495) 956-62-18



Digital inductive conductivity transmitter

- Fully integrated in Bürkert's process control systems
- Insensitive to coating fluids

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 Wide range of applications: Fertiliser dosing, cooling water monitoring, concentration measurement

PLC







Type 2031 Valve for continuous control

Type 1067 Continuous SideControl

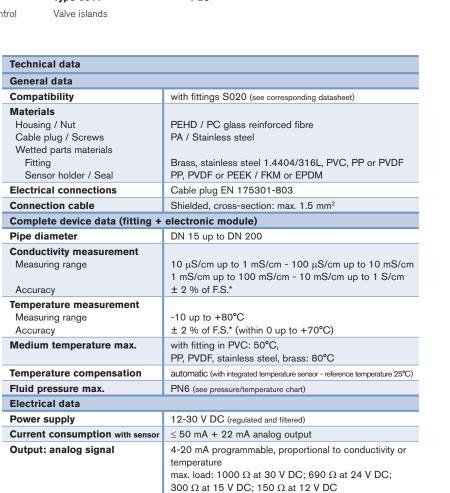
The conductivity transmitter Type 8223 is available in a splash-proof plastic IP65 housing.

The sensor component consists of a pair of magnetic coils in a PP, PVDF or PEEK housing. In order to measure conductivity, an AC voltage source is connected to the primary magnetic coil. The magnetic field induced generates a current in the secondary magnetic coil. The intensity of the induced current is a direct function of the conductivity of the solution.

The integrated temperature sensor for automatic compensation is a standard feature in the sensor housing. The transducer Type 8223 functions in a 3-wire circuit and requires a power supply of 12-30 VDC.

4...20 mA standard signal is available as output signal, proportional to the conductivity or the temperature of the fluid. A wide range of stainless steel, brass and plastic fittings are available (see datasheet Type S020). T Control





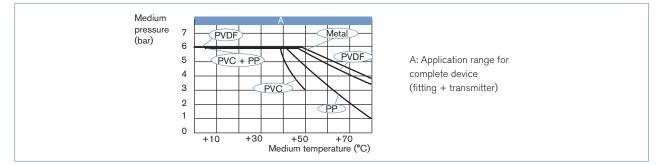
* of F.S. = of full scale



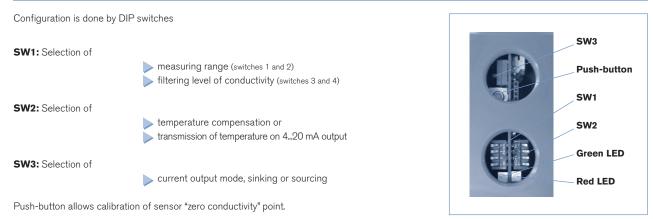
Environment			
Ambient temperature	0 up to 60°C (operation and storage)		
Relative humidity	≤ 80%, non condensated		
Standard			
Protection class	IP65 with cable plug mounted and tightened		

Pressure / Temperature diagram

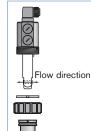
Please be aware of the fluid pressure-temperature dependance according to the respective fitting+sensor material as shown in the diagram.



Programming

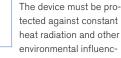


Installation



transmitter can easily be installed into any Bürkert insertion fitting system (S020) by just fixing the main nut.

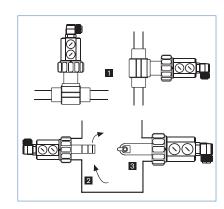
The 8223 conductivity



es, such as magnetic fields or direct exposure to sunlight.

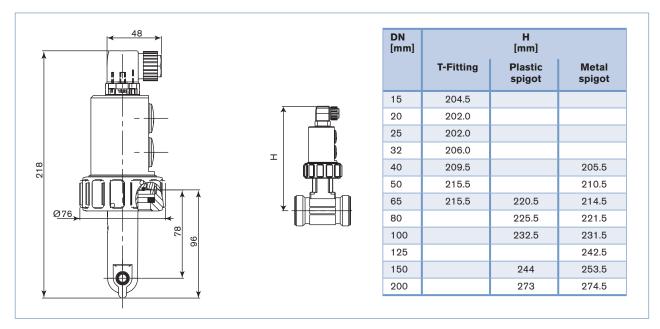
The device can be mounted in following positions:

- 1- Horizontal or vertical pipes
- 2- Mounting in tank without mixer
- 3- Mounting in tank with mixer.





Dimensions [mm]



Ordering chart for transmitter Type 8223

Voltage supply	Output	Sensor version	Electrical connection	Item no.
12-30 V DC 4-20 mA	PP	Cable plug DIN EN 175301-803	558 767	
		PVDF	Cable plug DIN EN 175301-803	440 440
		PEEK	Cable plug DIN EN 175301-803	550 335

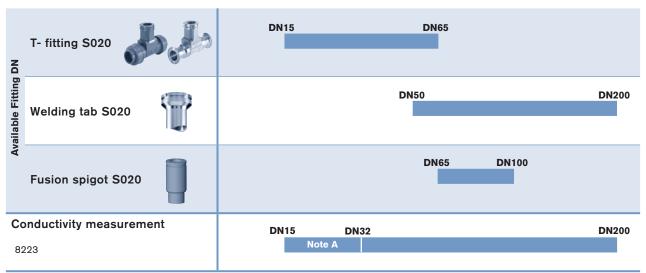
Ordering chart - accessories for transmitter Type 8223

Description	ltem no.	
Ring	619 205	
PC - nut	619 204	
Set with 1 green FKM + 1 black EPDM gasket		
Cable plug DIN EN 175301-803 with cable gland (Type 2508)		
Cable plug DIN EN 175301-803 with NPT1/2" reduction without cable gland (Type 2509)		

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Combining the conductivity transmitter Type 8223 with fittings Type S020



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Note A: Only with plastic fitting with true union connection DIN8063

In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice. © Christian Bürkert GmbH & Co. KG

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