

CONDUCTIVITY TRANSMITTER TYPE 8222



Intuitive menu structure

- Removable programming puck
- Data upload / download via puck
- Diagnostic function

Please add fitting from next page

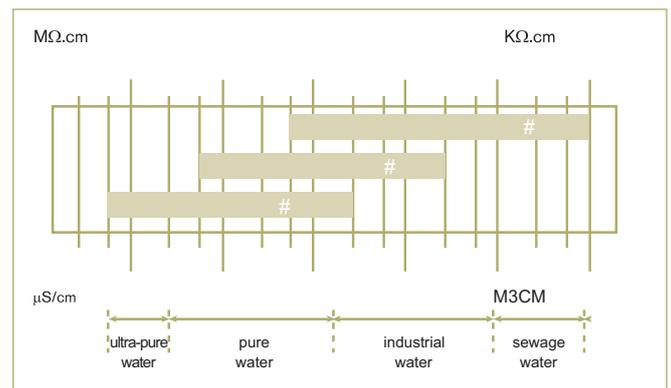
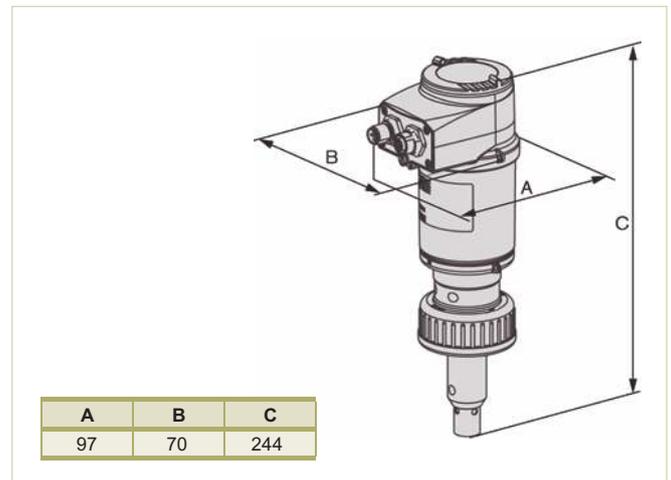


Conductivity transmitter with programmable outputs. Conductivity and temperature output via single or dual analog 4-20 mA. Two transistor outputs are also included. Transmitters are engineered for a wide scope of measuring ranges and can be delivered in 2-wire or 3-wire configurations. Intelligent, integrated, beautiful design fits perfectly with an assortment of easily configured fittings.

Technical Data

Measuring range Cond/T	0.05 μ S/cm ... 10 mS/cm , -40 °C to +130 °C
Measuring error Cond/T	\pm 3% of measured value, \pm 1 °C
Temperature compensation	Automatic via integrated temperature sensor acc. to a predefined graph (NaCl or ultra-pure water)
Available fitting materials	Stainless, PP, PVC
Housing material	Stainless steel, PPS, PC
Insertion finger	PVDF/St.St. for 0.01 or 0.1; graphite for 1.0
O-rings	EPDM
Fluid temperature	-20 °C - +100 °C (depending on fitting) (PVC 0 °C - +50 °C)
Max. fluid pressure	0-16 bar (depending on fitting)
Ambient temperature	-10 °C - +60 °C
Storage temperature	-10 °C - +60 °C (without probe)
Ingress protection	IP65, IP67, NEMA4X
Voltage supply	14...36 V DC for 2-wire models 12...36 V DC for 3-wire models
Electrical protection	Reversed polarity of DC and peak protected
Outputs	4-20 mA configurable temperature or conductivity 2 Transistors, configurable, open collector, 700 mA max., 0.5 A max. per transistor if the 2 transistor output are wired
Output load	1100 Ω at 36 V 610 Ω at 24 V 180 Ω at 14 V

Envelope Dimensions [mm] see data sheet for details)



The electrode is selected according to the measuring range and medium by using this table.

Ordering Chart

Nut material	Cell constant	Electrical connection	Item No
PVC	C=0.01	5-pin M12 male and 5-pin M12 female	559 619
	C=0.1	5-pin M12 male and 5-pin M12 female	559 615
	C=1.0	5-pin M12 male and 5-pin M12 female	559 611
PVDF	C=0.01	5-pin M12 male and 5-pin M12 female	559 621
	C=0.1	5-pin M12 male and 5-pin M12 female	559 617
	C=1.0	5-pin M12 male and 5-pin M12 female	559 613

Accessories	
Description	Item No
Display/programming module	559 168
Electrical connector, 5-pin M12 male, plug only	560 946
Electrical connector, 5-pin M12 male, 2m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2m prewired	438 680

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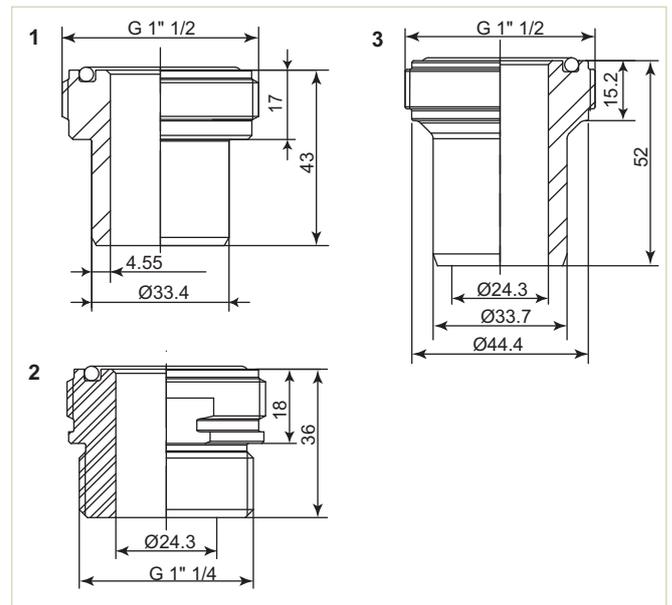
Dn32 - 110 mm adapters for pipe and tank mount fittings

- Simple installation guaranteed
- Range of chemically compatible materials
- Modular concept for pH, ORP and conductivity

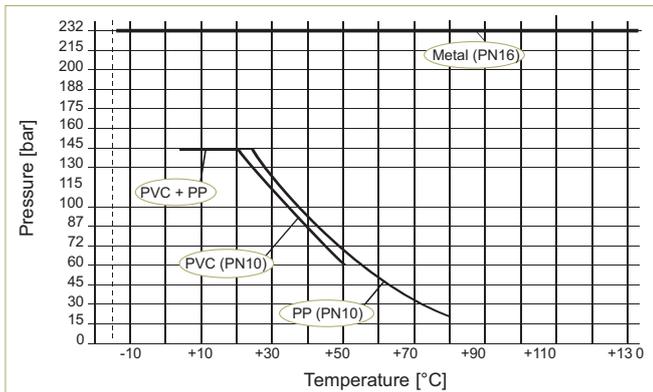


Fittings to connect the compact analytical transmitters to the media. Materials included are PVC-U, PP, Stainless steel, and PVC thread. For chemical resistance details please download our chemical resistance booklet from our website www.burkert.com

Envelope Dimensions [mm] see data sheet for details



Pressure / temperature chart



Note: Always take lowest max. medium temp. of both adapter and chosen ELEMENT transmitter.

Adaptation overview

Adaptor S022	Piping systems	DN	Description	Materials Body / Seal	Type of Installation	Item no.
1 PVC-U, PP metric or solvent adapter		32 up to 110 (06 up to 25 with reduction)	Solvent adaptor with G 1 1/2" external threaded for ELEMENT transmitter connection	PVC-U / FKM, EPDM	Solvent weld on d32x32 and d40x32 Tee fitting	560 705
2 Stainless steel**		Respect recommendations of installation	Welding adaptor with G 1 1/2" external threaded for ELEMENT transmitter connection	Stainless steel / FKM, EPDM	To weld directly on pipe	561 232
3 PVC-U, G or G 1 1/4" screw-on		Respect recommendations of installation	G 1 1/4" screw-on adaptor with G 1 1/2" external threaded for ELEMENT transmitter connection	PVC-U / FKM, EPDM	To screw on tank or pipe	560 707

** Please ask for Material Test Reports (MTRs) at time of ordering if required.