Conductivity transmitter with removable operating unit

- Intuitive menu structure
- Removable programming puck
- Data upload / download via puck
- Diagnostic function

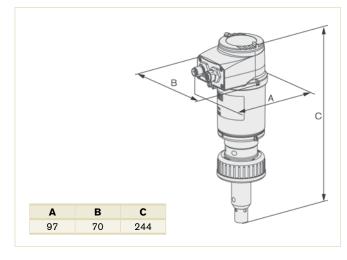
Please see adapters

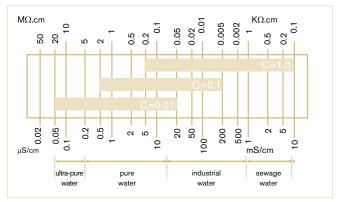
Conductivity transmitter with programmable outputs. Conductivity and temperature output via single or dual analog 4-20 mA. Two transistor outputs are also included. Transmitters are engineered for a wide scope of measuring ranges and can be delivered in 2-wire or 3-wire configurations. Intelligent, integrated,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

Technical Data

Technical data (Pipe + condu	uctivity meter)		
Pipe diameter	DN25 to DN110 (DN<25 with reduction)		
Conductivity measurement Measuring range Resolution Accuracy Temperature measurement Measuring range Internal resolution Accuracy Minimal temperature range	0.05 mS/cm 10 mS/cm 1 nS/cm ±3% of measured value -40 °C to +130 °C (-40 to 266 °F) 0.1 °C (0.18 °F) ±1 °C (1.8 °F) 10 °C (i.e 10 °C to 20 °C (50 to 68 °F) corresponding to 4 20 mA)		
Temperature compensation	none or according to a predefined graph (NACI or ultra pure water) or according to a graph defined especially for your process		
Medium temperature with G 1½" PVC nut con- nection with G 1½" PVDF nut con- nection	0 °C to 50 °C (32 to 122 °F) -20 °C to 100 °C (-4 to 212 °F) restricted by the used adaptor restriction with adaptor S022 in: - PVC: 0 °C to 50 °C (32 to 122 °F) - PP: 0 °C to 80 °C (32 to 176 °F) - Metal: -20 °C to 100 °C (-4 to 212 °F)		
Fluid pressure max	PN16 (232 PSI) (see Pressure/Temperature chart)		
Environment			
Ambient temperature	-10 °C to +60 °C (14 to 140 °F) (operating and storage)		
Relative humidity	\leq 85%, without condensation		
Electrical data			
Power supply 4 outputs meter (3-wire)	12 - 36 V DC, filtered and regulated		
Current consumption with sensor 4 outputs meter (3-wire)	≤ 1 A (with the 2 transistors loads) ≤ 5 mA (at 12 V DC without transistors load, without current loop)		
Reversed polarity of DC	Protected		
Voltage peak	Protected		

Envelope Dimensions [mm] (see datasheet for details)



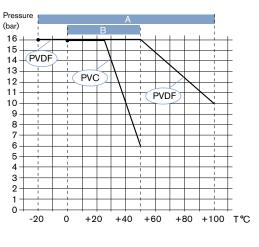


The electrode is selected according to the measuring range and medium by using this table.

378 burkert

Protected for transistor outputs
configurable as sourcing or sinking (respec- tively both as PNP or NPN), open collector max. 700 mA, 0.5 A max. per transistor if the 2 transistor outputs are wired output NPN: 0.2 - 36 V DC output PNP: V+ power supply
4 20 mA programmable as sourcing or sinking,
configurable in the same mode as transistor: sourcing or sinking, max. loop impedance: 1100 W at 36 V DC; 610 W at 24 V DC; 100 W at 12 V DC
150 ms (standard)
Any pipe which are fitted out with Bürkert adap- tor S022 (see separate data sheet)
Stainless steel 1.4561, PPS / PC EPDM / Stainless steel Stainless steel
Brass nickel plated PC / PBT PVC or PVDF
PVDF, stainless steel 1.4571 (316Ti) Stainless steel 1.4571 (316Ti) for cell constant C=0.01 or C=0.1 or graphite for cell constant C=1.0
Pt1000 (316Ti) integrated in the sensor
Grey dot matrix 128x64 with backlighting
aloy dot maint 120x01 man baoring mang
1x 5-pin M12 male + 1x 5-pin M12 female fixed connectors
Shielded cable
provals
IP65 and IP67 with M12 cable plug mounted and tightened and cover fully screwed down
EN 61000-6-2, EN 61000-6-3
Complying with article 3 of §3 from 97/23/CE directive.*
EN 60068-2-6 / EN 60068-2-27
61010-1 + CAN/CSA-C22 No.61010-1

Pressure/Temperature chart



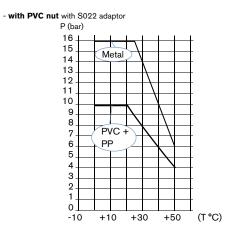
Application range of a 8222 ELEMENT conductivity meter:

 A
 : with PVDF nut (on request)

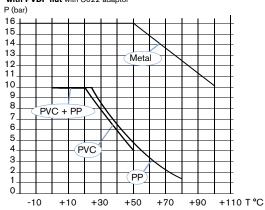
 B
 : with PVC nut

 The measures have been made at an ambient temperature of 60 °C.

Application range of a 8222 ELEMENT conductivity meter



- with PVDF nut with S022 adaptor



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 61 1
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, 2 m prewired	559 177
Electrical connector, 5-pin M12 female, plug only	917 116
Electrical connector, 5-pin M12 female, 2 m prewired	438 680

Note

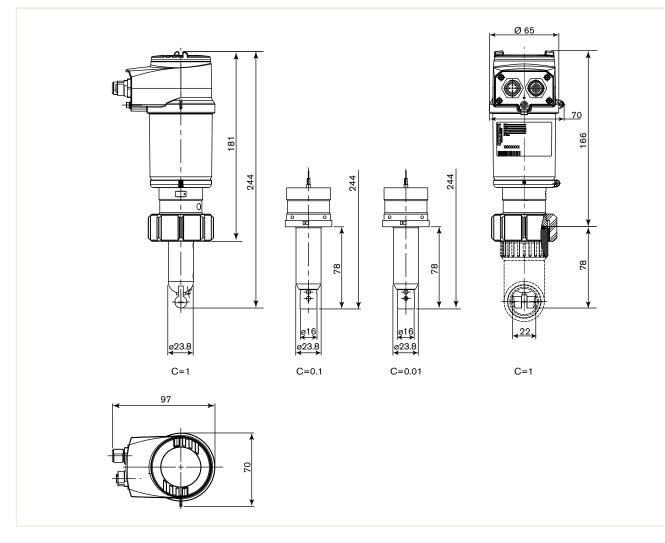
For a complete transmitter the following items must be ordered:

– Transmitter, Type 8222 ELEMENT

- Display/programmer module

- INSERTION Adapters (see Type S022)

- M12 cable socket, cable connector (only cable socket for a 4-20 mA current output, cable and cable connector for two 4-20mA current outputs)



Dimensions [mm] of conductivity meter Type 8222