

CONNECTION DIAGRAM



EC5105

E. CONDUCTIVITY CELL + Pt100











1 GENERAL INFORMATION

This E.C. cell has been designed for in-line or immersion applications.

For immersion application the sensor must be installed into the B&C/Nieuwkoop holder SZ 8xx (except SZ 862 and SZ 882).

For in-line application the sensor must be installed into the B&C/Nieuwkoop holder SZ7101, SZ 7105. or SZ 7108.

When the cell is installed in flow, the shape and position of the electrodes provide for a self-cleaning effect by means of the liquid velocity.

Flat graphite electrodes are placed into the epoxy body, together with the temperature sensor.

2 SPECIFICATIONS

Electrodes graphite

Cell constant $K = 1 \pm 0,15$

Body epoxy

Temperature sensor Pt 100 (3 wires)

Operating temperature -5/+80 °C

Pressure 10 bar max at 20 °C

Length 110 mm
Diameter 12 mm
Cable length 5 m

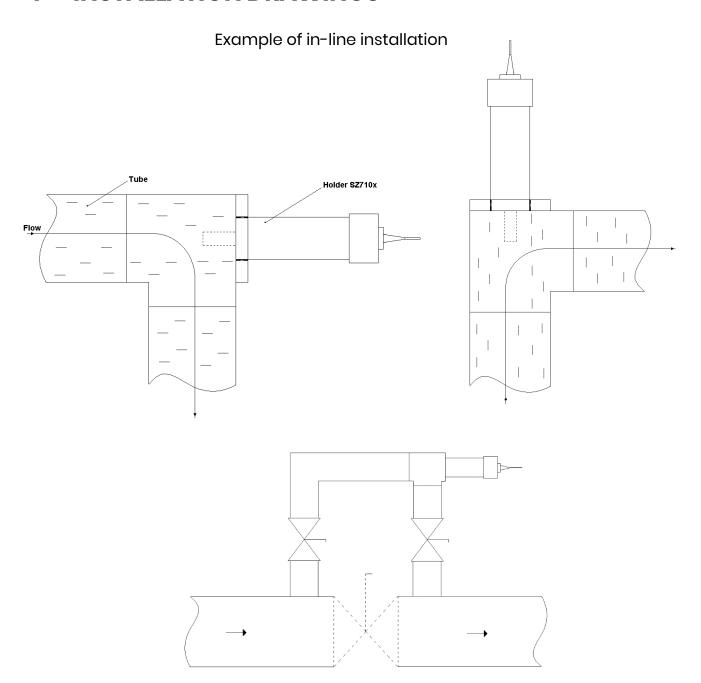
Cable type SZ927.1

3 CONNECTIONS

Wire color	Internal connection	C7615	C7685	C7687	C3436	C3630
				C7635		
				C7335		
Black Transparent	CI (central electrode)	14	22	25	11	13
Black Shield	0		(21)	29	15	6
Brown and red	CO (outside electrode)	13	20	23	10	10
Orange	Pt100	17	23	27	13	4
Yellow	Pt100 common	18	24	28	14	5
Green	Pt100 common	18	25	29	15	6
Transparent		4			-	_



4 INSTALLATION DRAWINGS



Warning:

- 1 Install the sensor in the electrode holder SZ 710x.
- 2 Install the electrode holder as shown in the drawing.
- 3 The sample in contact with the cell must be representative of the solution to be measured.
- 4 The liquid must not contain air bubbles, must circulate continuously and fill the tube around the cell.
- 5 The flow velocity must be such as to avoid cavitation.
- 6 Sediment deposits or foreign material must not accumulate near the probe.
- 7 Verify that the limitations of temperature and pressure of the cell are observed.



TO MEASURE TO KNOW

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