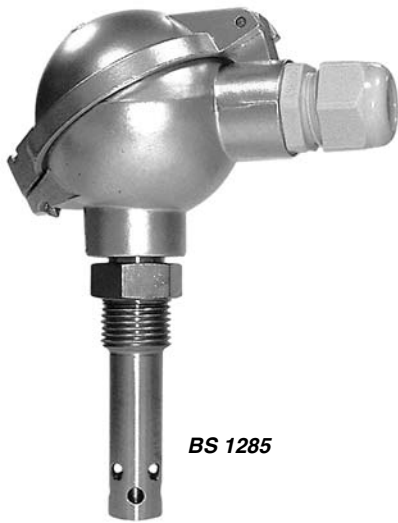


RESISTIVITY AND CONDUCTIVITY BS - BC - PROBES WITH COAXIAL CELLS



BS 1285



BC 1427



BS 570



BS 1287

- Resistivity and Conductivity probes
- Cell factors 0.1 and 0.01
- Reliability and sturdiness
- Construction: Stainless Steel and PTFE, PVC
- Also to be use with the BAMOPHOX

PROBES WITH COAXIAL CELLS

With cell factors of 0.1 and 0.01 values, these probes are dedicated to measurement of liquid resistivity between 10 kOhm and 30 MOhm.

The external electrode (*surrounding frame*) assures the mechanical protection of the centric electrode and limit the measuring area for an accurate factor definition.

By construction, these probes are sturdy. PTFE insulation is a warranty for chemical compatibility even with highly aggressive liquids.

Wiring:

- Through a removable coaxial connector PL259,
- Through an industrial head housing (*Alloy or PBT*),
- Through a coaxial connecting plug BNC type,
- Directly with the cable output.

Some probe models have a built in temperature sensor (*Pt 100 Ohm / 0°C*) to allow an automatic temperature compensation (*only for industrial head housing type*). Other probes can be completed by an external standard temperature probe (see our data sheets 610 +).

CELL FACTOR

The cell factor is the ratio between the measurement done through the probe and the real value of resistivity.

For instance a 0.1 factor probe in a 10 kOhm liquid will measure a resistance of 1 kOhm. On the BAMOPHOX the display will be 10 kOhm.

For high conductive liquids (low resistivity) it will be necessary to use probes with cell factor of 1 or 10. (*please, see our BF1200 types – data sheet 361-01*) or inductive sensors (*see our toroidal sensors – data sheet 364-01*).

SPECIAL CABLE FOR CONDUCTIVITY

For measuring systems, the cable between sensor and monitor is essential in conductivity or resistivity measurements:

- To avoid measurement errors,
- To assure a high accuracy.

We supply a special cable (*CCA*) convenient for 0.1 or 0.01 cell factor probes. The probes with a cable output like other probes or cells will need a coaxial plug BNC type for the connection to the monitor. The cable should of an entire length.

The use of a standard coaxial cable is prohibited as errors of over 50% will occur with a short length cable (*even less than 1 metre*).

CABLE FOR TEMPERATURE SENSOR

To connect the temperature sensor we supply a 3 wires cable C3B (3 x 0.22 mm²). The shield is connected only on one end.

BAMO MESURES

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RESISTIVITY & CONDUCTIVITY
BS - BC

17-12-2008

360 I1 01 H

RES

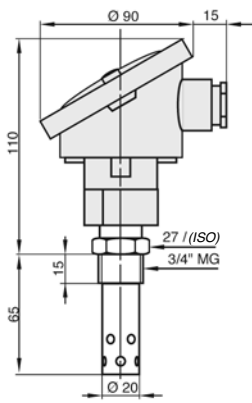
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CODE NUMBERS AND REFERENCES

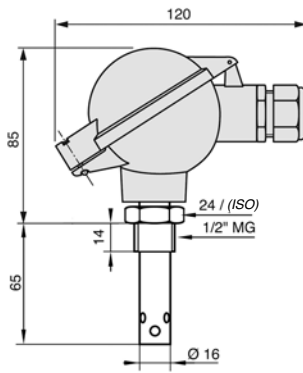
Code	Reference	Factor	Pt 100	Process connection	Probe material	Connector type	Pressure / bar	T° / °C
By insertion								
360 100	BS 570	0.1	-	3/4"	316L	PL 259	10	100
360 112	BS 572	0.1	-	3/4"	316L	Aluminium housing	10	100
360 125	BS 650 CT	0.1	YES	3/4"	316L	Aluminium housing	10	100
360 127	BS 651 CT	0.1	YES	3/4"	316L	Cable output, 2 x 5 m	10	100
360 130	BS 573/50	0.1	-	Clamp Ø 50	316L	Aluminium housing	10	100
360 132	BS 573/50 CT	0.1	YES	Clamp Ø 50	316L	Aluminium housing	10	100
360 135	BS 660 CT	0.01	YES	3/4"	316L	Aluminium housing	10	100
360 137	BS 661 CT	0.01	YES	3/4"	316L	Cable output, 2 x 5 m	10	100
360 310	BS 1284	0.1	-	1/2"	316L	PL 259 Connector	10	100
360 312	BS 1283/34	0.1	-	Clamp Ø 34	316L	PL 259 Connector	10	100
360 313	BS 1283/50	0.1	-	Clamp Ø 50	316L	PL 259 Connector	10	100
360 315	BS 1285	0.1	-	1/2"	316L	Al housing	10	100
360 500	BC 1425	0.1	-	1/4"	316L	5 m cable output	5	50
360 502	BC 1425/BNC	0.1	-	1/4"	316L	5 m cable output +BNC	5	50
360 507	BC 1427	0.1	-	1/4"	316L	BNC connector	5	50
By immersion								
360 200	BS 575	0.1	-	Flange DN 20	316L	Aluminium housing	10	100
360 210	BS 575 CT	0.1	YES	Bride DN 20	316L	Aluminium housing	10	100
360 220	BS 585	0.01	-	Bride DN 20	316L	Aluminium housing	10	100
360 230	BS 585 CT	0.01	YES	Bride DN 20	316L	Aluminium housing	10	100
360 400	BS 1287	0.1	-	1"	PVC	PBT housing	5	50
360 450	BS 1287 CT	0.1	YES	1"	PVC	PBT housing	5	50

ACCESSORIES

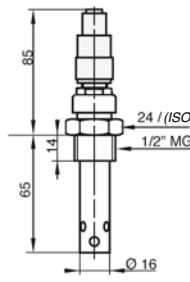
Code	Reference	Designation
360 410	BS 1288	PVC Flange DN 20 PN 10/16 for BS 1287
368 100	CCA	Special coaxial cable for conductivity
368 200	PL 259	Coaxial connector for BS 1284 and BS 570
368 210	BNC/CCA	Coaxial connector BNC to thread on CCA cable
610 010	C3B	3 wires cable (3 x 0.22 mm ²), shielded, for temperature compensation



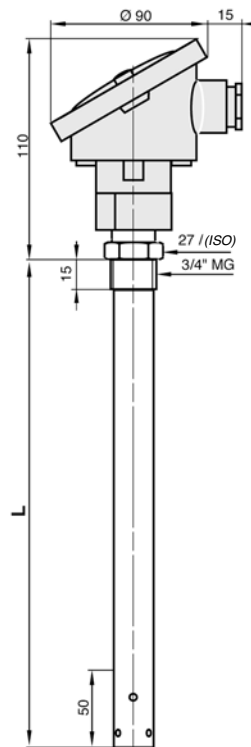
BS 572



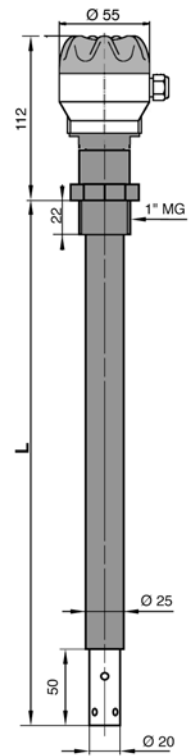
BS 1285



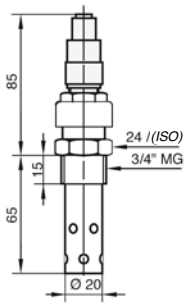
BS 1284



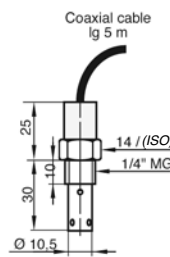
BS 575 - BS 575 CT



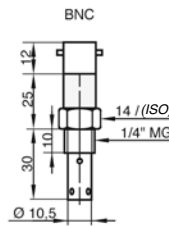
BS 1287 - BS 1287 CT



BS 570



BC 1425



BC 1427

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