

General Specifications

Model BA10 and WF10
Junction box and Connecting cable

pH/ORP

Between measuring plant and control room, especially when the distance between these places is greater than the length of the standard appropriate electrode cables, the connecting equipment can be an expedient method for connecting sensor cables to a measuring instrument.

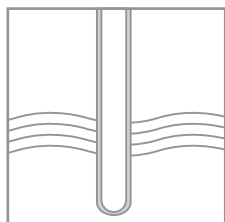
The equipment includes:

1. A junction box.
2. Special purpose connecting cable.

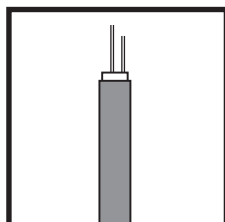
The items are available for common as well as for Intrinsically safe applications.



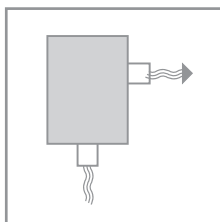
System Configuration



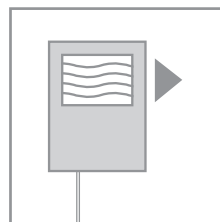
Sensors



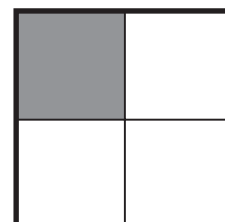
Cables



Fittings



Transmitters



Accessories

1. Junction box, type BA10

The junction box is an expedient method for connecting sensor cables to a measuring instrument.

Note

The special purpose cable, type WF10 should be used to interconnect the junction box and the measuring instrument. To have optimum measuring results the length of this cable may be max. 100 m.

specifications

Material : Cast aluminium case with chemically resistant lacquer

Rain- and dust protection

: Meets IP 65

Terminals : Wires up to 6 mm²

Cable entries* : 2 holes with screw thread for 1 hose connection and a gland PG 16 or 2 glands PG 16

Colour terminal block

- Normal use : Brown
- IS Design : Blue

Weight : Ca. 2 kg.

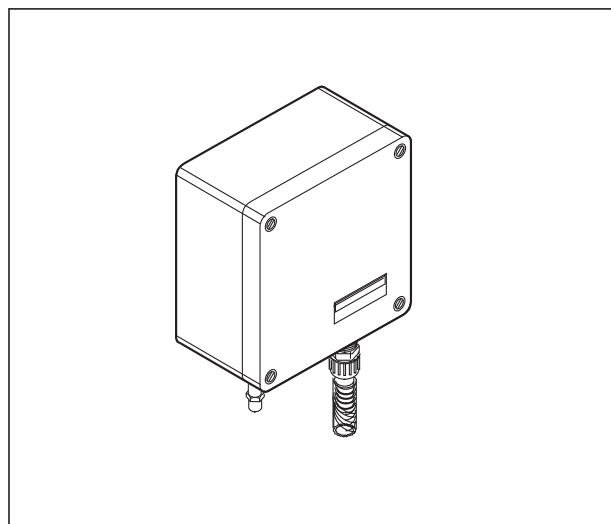
Dimensions : See dimensional drawing

Fixing : 140 x 110 mm (indicated on reverse side of the box)

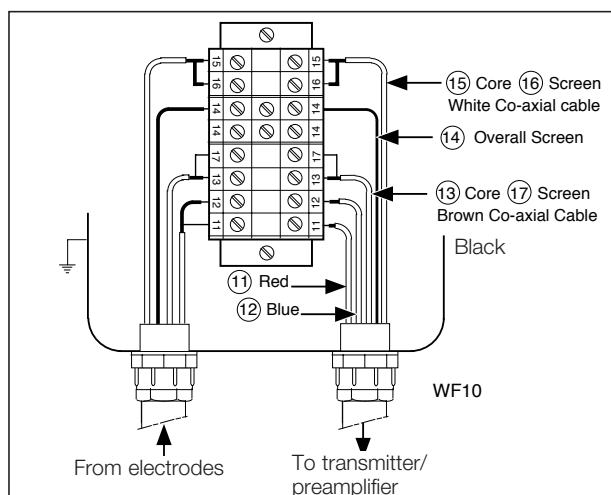
Ordering Instructions

Type	Description
BA10	For normal use

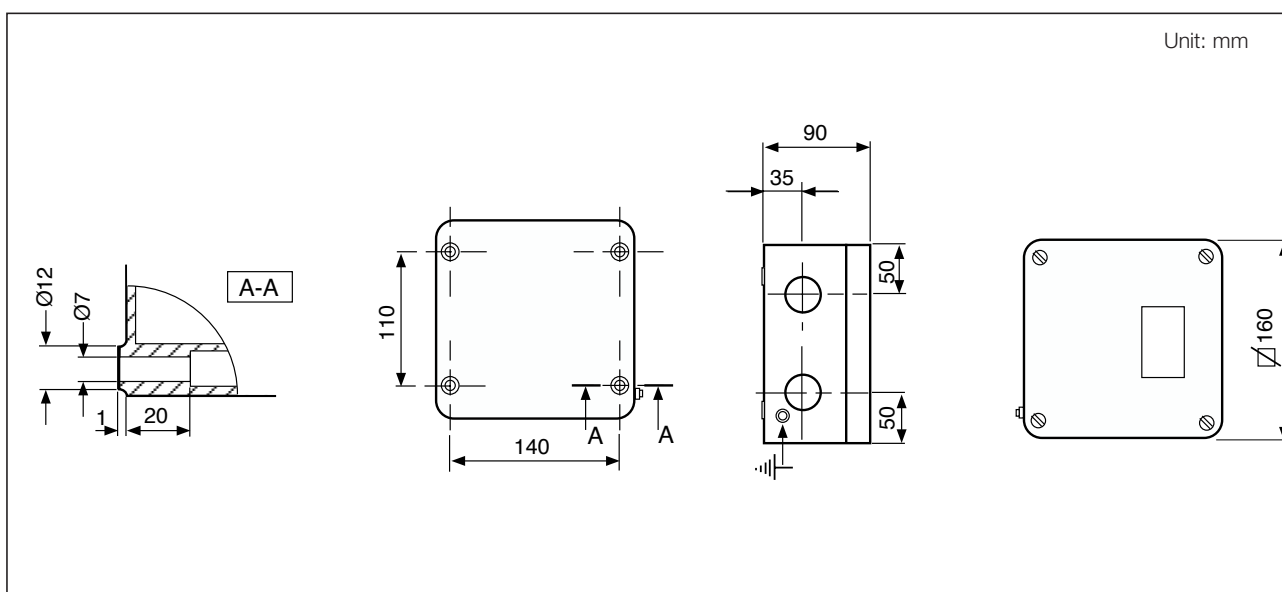
* As delivered the box includes a plastic pocket with 2 glands PG 16, a hose connection for a 19 mm I/D protection hose and a grommet for watertight cable input in a gland (3 electrode cables and the liquid earth cable).



Junction box



Connection diagram



Dimensions/Fixing

GS 12B6W2-01E-E

2. Connecting cable, type WF10

This cable satisfies the high requirements of insulating resistance and screening. It suits the application of signal transmission representing low voltage and high impedance level.

The cable is used to interconnect junction box and measuring instrument.

Note:

Long cable lengths add resistance and capacitance to the measuring loop.

These values are specified below.

The maximum values for cable length, cable capacity that are specified in the Instruction Manual of the analyzer may not be exceeded. The resistance may introduce a measuring error, especially when using a 100 Ohm RTD.

Normally the analyzer can be calibrated for this error.

Specifications

Max. temperature	: 110 °C
Material	: Thermoplastic Rubber (T.P.R.)
Bending radius	
- Permanent	: > 83 mm
- Frequently	: > 125 mm
Diameter	: 8.5 mm
Colour	: Black

CABLE A/B

Capacitance between core and screen : max. 120 pF/m

Insulation resistance between core and screen : min. 15×10^{14} Ohm./km

Resistance : ca. 80 Ohm/km

Dielectric : T.P. Rubber

Jacket A : Brown

Jacket B : White

CABLE C/D

Resistance : ca. 35 Ohm/km

Jacket C : T.P. Rubber (Red)

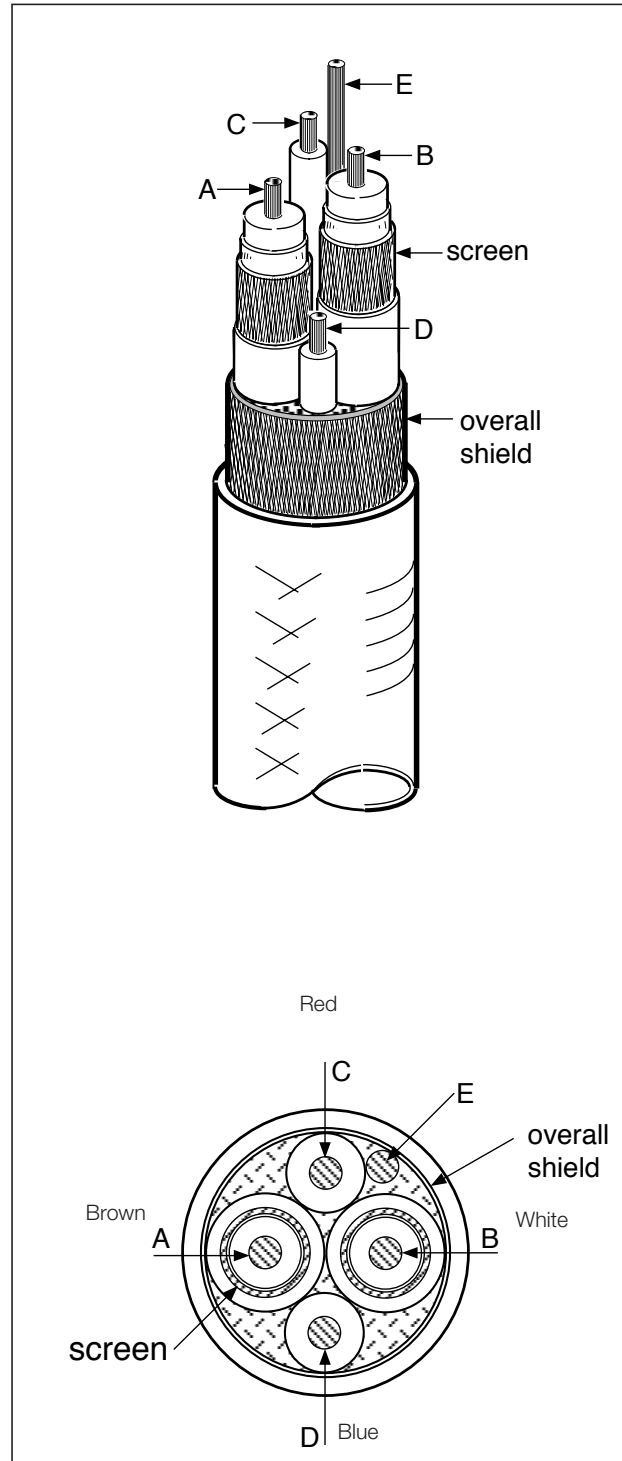
Jacket D : T.P. Rubber (Blue)

CABLE E : Overall shield

Ordering Instructions

Model and Suffix code

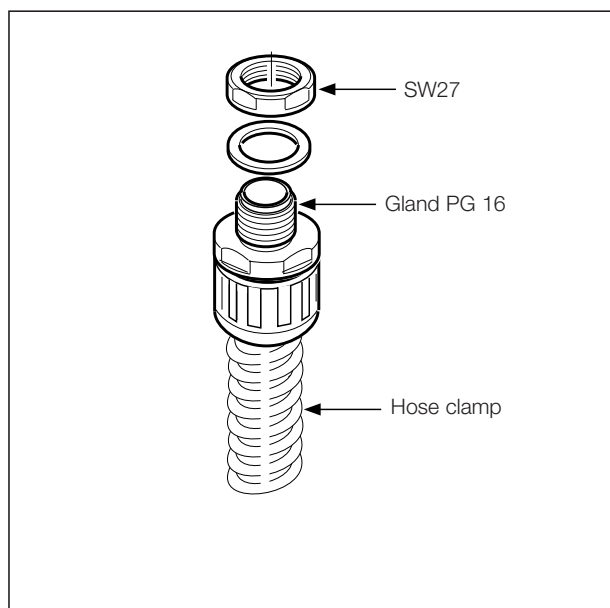
Model	Suffix code	Description
WF10	Connecting cable
Cable length	- NN	Length in meters between 1 and 200
	-F	Finished
	-N	Not finished



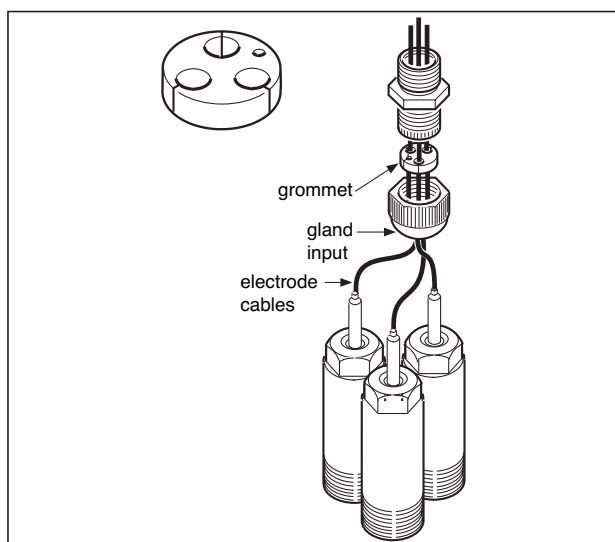
Connecting cable WF10

ACCESSORIES AND PARTS

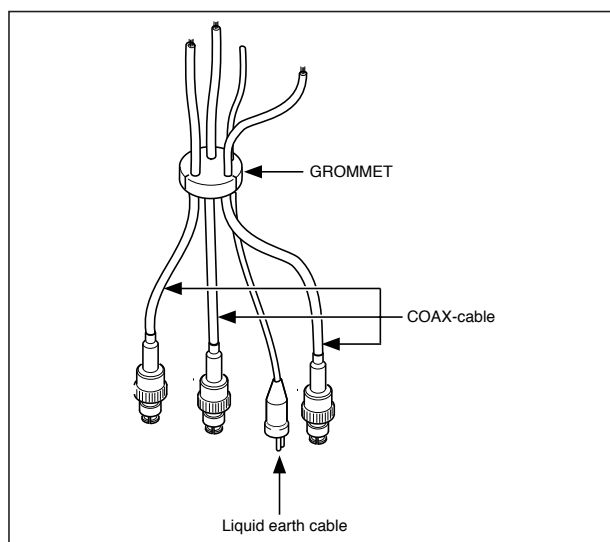
Type	Description
WU20-PC01	COAX-cable for single electrode (1 m)
WU20-PC02	COAX-cable for single electrode (2 m)
WU20-PC05	COAX-cable for single electrode (5,5 m)
WU20-PC10	COAX-cable for single electrode (10 m)
WU20-PC15	COAX-cable for single electrode (15 m)
WU20-PC20	COAX-cable for single electrode (20 m)
WU20-PC25	COAX-cable for single electrode (25 m)
WU20-LT01	TRIAx-cable for combined electrode (1 m)
WU20-LT02	TRIAx-cable for combined electrode (2 m)
WU20-LT05	TRIAx-cable for combined electrode (5,5 m)
WU20-LT10	TRIAx-cable for combined electrode (10 m)
WU20-LT15	TRIAx-cable for combined electrode (15 m)
WU20-LT20	TRIAx-cable for combined electrode (20 m)
WU20-LT25	TRIAx-cable for combined electrode (25 m)
K1500FV	Liquid earth cable (10 m)
K1500DU	Liquid earth cable (25 m)
K1500BX	Grommet for watertight cable input in PG 16 gland (3 electrode cables and liquid earth cable)



Hose connection



Mounting



Cable

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