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.

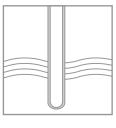
The equipment includes:

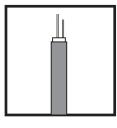
- 1. A junction box.
- 2. Special purpose connecting cable.

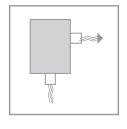
The items are available for common as well as for Intrinsically safe applications.

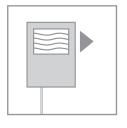


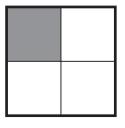
System Configuration











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 coating

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 **Weight** : Ca. 2 kg.

Dimensions: See Fig. 3 dimensional drawingFixing: 140 x 110 mm (indicated on reverse

side of the box)

Note* 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).

Ordering Instructions

Туре	Description	
BA10	For normal use	

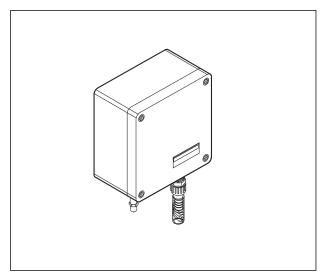


Fig. 1 Junction box

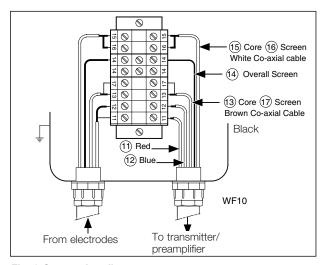
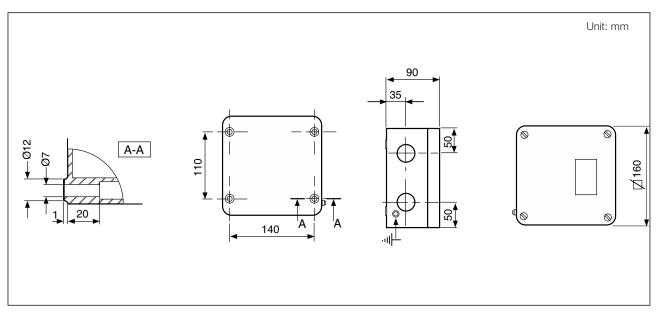


Fig. 2 Connection diagram



Dimensions/Fixing

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. In general the analyzer can be calibrated/adjusted 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 x 10¹⁴ 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

Mod	del	Suffix	code	Description
WF1	10			Connecting cable
Cab	le length	- NN		Length in meters between
				1 and 200
			-F	Finished
			-N	Not finished

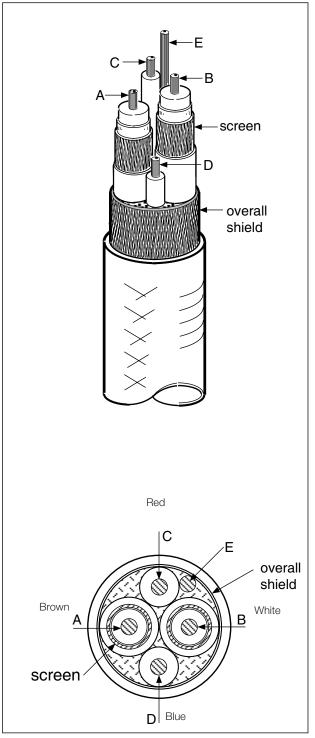


Fig. 4 Connecting cable WF10

ACCESSORIES AND PARTS

Part no.	Description
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)

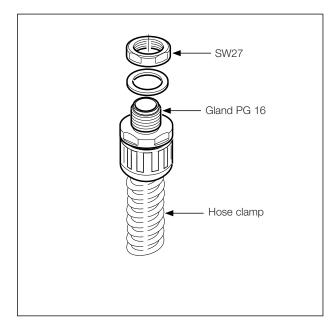


Fig. 5 Hose connection

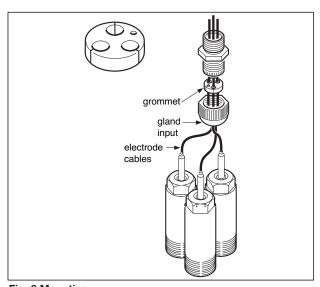


Fig. 6 Mounting

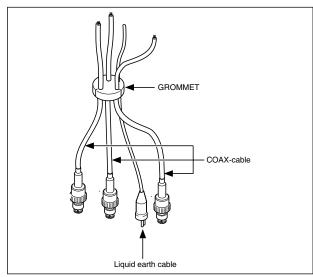


Fig. 7 Cable

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