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JUMO Process Control, Inc.
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JUMO single/twin redox electrodes

Brief description

Single/twin redox electrodes consist of a glass or plastic shaft, to the lower end of which a metal pin or metal tip is fused or cemented. With metal electrodes, the redox potential of aqueous media can be determined in conjunction with a reference electrode (data sheet 201083). Twin metal electrodes are used to measure the end point in amperometric titrations.

The following active components are available:

- gold: tip for media with a powerful oxidizing action, such as in cyanide detoxification
- platinum: tip for media with a powerful reducing action, such as in chromate reduction
- platinum/gold: pins in twin metal electrodes
- platinum/platinum: pins in twin metal electrodes
- antimony: for determining the pH value in media with a high hydrofluoric acid content (HF)



Type 201082/13 ...

Technical data

Redox range	Pt tip/Pt pin ± 2000 mV Au tip/Au pin ± 2000 mV Sb pin
Temperature range	Pt tip 0 - 135 °C Au tip 0 - 135 °C Sb pin
Pressure range	with plug cap: unpressurized operation with Pg 13.5 screw cap: 6 bar/25 °C, 1 bar/80 °C
Terminal head	PPO
Process connection	plug cap without thread or Pg 13.5 screw cap
Washer	PSU
Seal	FPM70
Shaft material	glass (DIN 19 263)
Fitting length	120 mm (standard) other fitting lengths on request

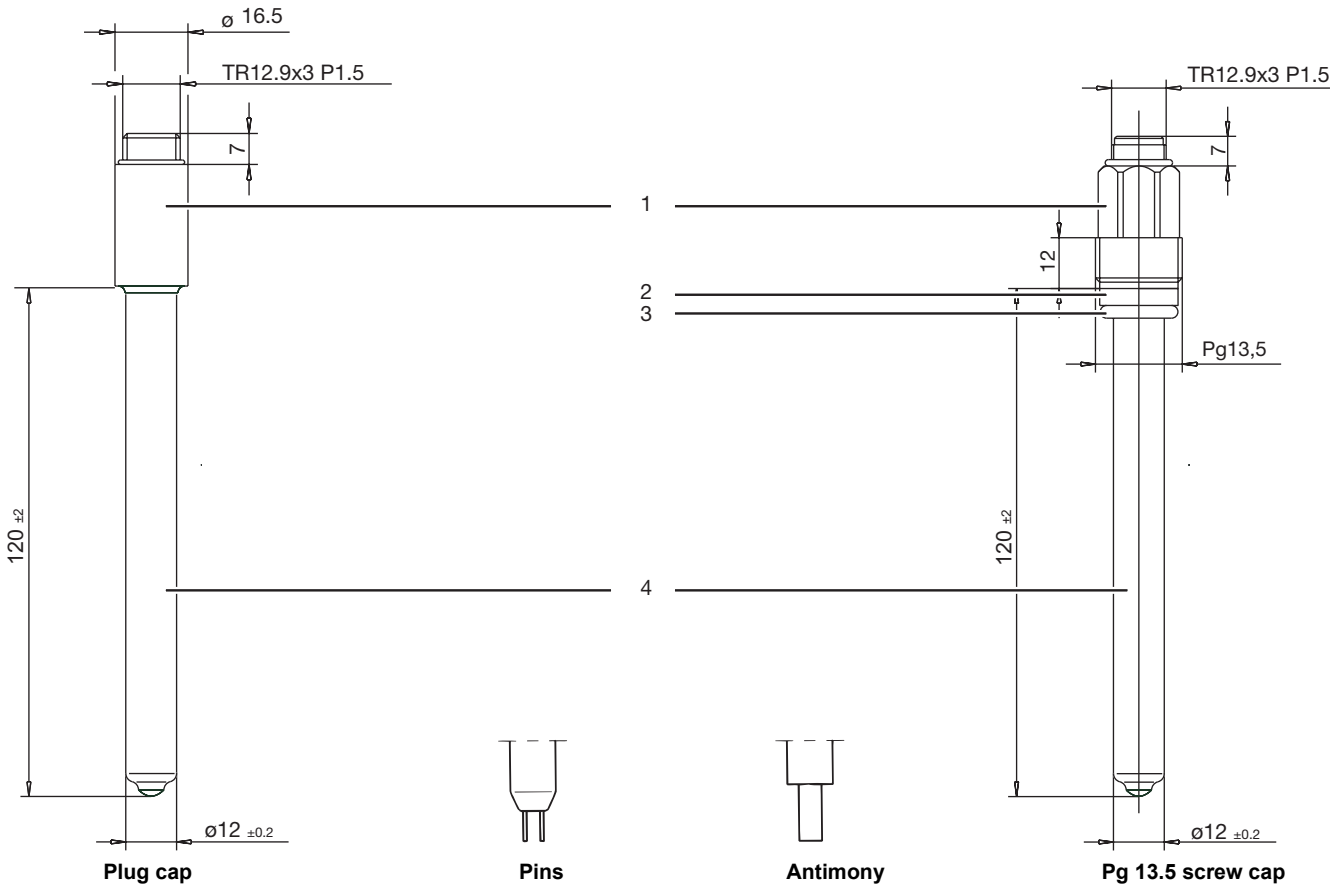
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Dimensions



- 1 Plug cap without thread or Pg 13.5 screw cap
- 2 Washer
- 3 Seal
- 4 Shaft material

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Order details

(1) **Basic type**
 201082 JUMO single/twin redox electrodes

(2) **Basic type extension**

12 antimony electrode for measuring the pH value
 13 metal redox electrode
 14 twin metal redox electrode

(3) **Shaft material**

x x 85 glass
 x 89 plastic

(4) **Active component**

x 22 platinum tip/redox range ±2000 mV/-5 to +135°C
 o 23 platinum/platinum pin/redox range ±2000 mV/-5 to +135°C
 x 24 platinum/gold pin/redox range ±2000 mV/-5 to +135°C
 x 27 antimony/pH 0 - 10/fluoride concentration > 1000 mg HF/l
 o 32 gold tip/redox range ±2000 mV/-5 to +135°C

(5) **Connection**

o o 21 Plug cap
 x x x 22 Pg 13.5 screw cap

(6) **Fitting length^a**

x x x 120 120 mm (standard)

x = as standard

o = option

^a Other fitting lengths on request.

Order code	(1)	/	(2)	-	(3)	-	(4)	-	(5)	-	(6)
Order example	201082	/	13	-	89	-	22	-	22	-	120

Note:

The order code is a type designation, not a modular system. If possible, choose items listed under "stock versions" or "production versions" for your orders. We will have to technically inspect and approve a free combination of individual key features. In case of doubt, please ask.

Production versions

(delivery 10 working days after receipt of order)

Type	Brief description	Sales no.
201082/13-89-22-21-120	Metal redox electrode, platinum tip, plug cap, 120 mm	20/00300402
201082/13-89-22-22-120	Metal redox electrode, platinum tip, Pg 13.5 screw cap, 120 mm	20/00300403
201082/12-85-27-22-120	Antimony electrode, Pg 13.5 screw cap, 120 mm	20/00325951