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JUMO CORROTRODE

For measuring the hydrogen peroxide concentration in acidic etching baths in PCB manufacture

- constant PCB quality
- reduced consumption of the dosing agent
- avoids incorrect dosing
- ongoing check of the bath condition through value display
- continuous automatic dosing (controlled)
- prevents overdosing / insufficient dosing
- reduces man-hours spent on laboratory measurements
- consistent concentration of hydrogen peroxide ensures a steady etching rate
- alarm if measurements drift
- alarm in the absence of a dosing agent (dosing time monitoring)

Brief description

The new, patented* JUMO CORROTRODE has the task of measuring the hydrogen peroxide concentration, which is evaluated and controlled through a transmitter with integrated control contacts. A connected dosing pump supplies hydrogen peroxide from a reservoir.

The JUMO CORROTRODE is a potentiometric sensor (CPPS = Corrosion Potential-based Potentiometric Sensor) with an output signal covering a voltage range of several hundred mV.

* DP 199 53 218, EP 00 122 033, GM 201 14 875

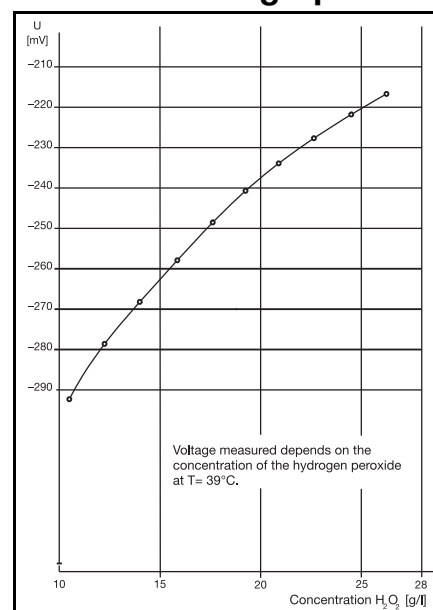
The application is described in detail in our brochure PR 20013. Other applications are conceivable; please contact us for further information.

Technical data

Measurement range	0.1 – 30g / liter H ₂ O ₂
Temperature range	0 – 60°C
Pressure range	unpressurized
pH range	-1 to +3 pH
Incident flow velocity	> 1 cm / sec
Output signal	H ₂ O ₂ concentration-dependent voltage signal (range -500 to 0 mV)
Temperature compensation	none; start and end value of dosing range are dependent on temperature
Dimensions	diameter: 12 mm length: 120 (150) mm
Life	of the replaceable sensor component: approx. ½ to 1 year
Wetted components	PEEK (shaft) platinum (reference system) vanadium-niobium alloy (sensor component) E-CTFE (sensor insulation) FPM (O-ring and seal)



Concentration graph



Indicating/operating unit

Option: JUMO dTRANS Rd
(see JUMO Data Sheet 20.2535)
connecting cable as per
Data Sheet 20.2900

Order details

Type designation

(1) Basic type

202660 JUMO CORROTRODE

(2) Basic type extension

/000 none
/001 sensor module in vanadium alloy
/002 sensor module in pure vanadium

(3) Diaphragm

-0 none
-1 Ceramic diaphragm
-2 PTFE-diaphragm

(4) Fitting length

-120 120 mmm
-150 150 mmm

(5) Extra codes

/000 no reference system
/098 reference system Ag/AgCl
/099 reference system Pt ring

	(1)	(2)	(3)	(4)	(5)				
Order code	<input type="text" value="202660"/>	/	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	/	<input type="text"/>
Order example	<input type="text" value="202660"/>	/	<input type="text" value="00"/>	-	<input type="text" value="1"/>	-	<input type="text" value="120"/>	/	<input type="text" value="099"/>

Ex-stock model

(delivery 3 days from receipt of order)

Sales No.	Type
20/00404186	202660/00-120/099

Other versions: delivery 2 weeks from receipt of order.

Optional accessory 1

available ex-stock

Sales No.	Type
20/00404188	Replacement sensor module (vanadium alloy)