Hydrogen meter

Type: Con 2000 hydrogen

Analyser

for the determination of

dissolved hydrogen

Physical characteristics and highlights

- Capable measuring in a range from trace amounts up to saturated media
- High resolution and rapid response time thanks to elimination of membrane
- No zero point setting required
- Low-maintenance measuring sensor
- No additional calibration medium required thanks to automatic in-line calibration
- ***New: Calibration – just in time:***
  If the ionic strength of the sample changes, e.g. when the power plant changes from alkaline to combined operation, the unit automatically calibrates, thus adapting itself to the new conditions.
- High degree of automation
- Compensation of flow rate and temperature effects
- Sensor available both as floor unit and panel-mounted unit
- Insensitive to pressure fluctuations
- Analogue and digital interface
- Processing of measured values by means of state-of-the-art microcontroller technology; menu-assisted operation

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Hydrogen meter

Type: Con 2000 hydrogen

Technical data:

Measuring method:	Potentiostatic 3-electrode measuring system
Calibration:	Optionally manual or automatic
Measuring ranges:	
Measuring range group I:	
	0.0.....1000.0 µg/l
	Measuring ranges freely selectable from 20...999.9 µg/l
Measuring range group II:	
	0.0.....20.0 mg/l
	Measuring ranges freely selectable from 4.....20.0 mg/l
Measuring range switching:	Optionally
Analogue output:	0(4).....20 mA freely selectable, max. output load 500 Ω
Digital output:	Serial interface RS 232
Data logging:	Optionally
Limit value:	Potential free changeover contact 230 V / 500 mA
Alarm/fault:	Potential free changeover contact 80 V / 500 mA
Measuring electrode:	Platinum
Counter-electrode:	High-grade steel 1.4571
Reference electrode:	Ag/AgCl electrode in saturated KCl solution
Calibrating electrode:	High-grade steel 1.4571
Time constant t_{90}:	30 s
Conductivity of sample:	
	≥ 3 µS/cm, otherwise the salting vessel with calcium carbonate must be used
Flow rate of sample:	min. 3l/h.....optimum 10l/h max. 18l/h
Ambient temperature:	0.....+ 55 °C
Sample temperature:	0.....+ 55 °C
Sample pressure:	< 10 barg (1 MPa)
Connection to analyser:	Compression-type fitting f. pipe ∅ 6 mm
Accuracy:	± 3 %
Degree of protection:	IP 54
Power supply:	100...240 VAC ; 50/60 Hz
Power consumption:	10 VA
Dimension (mm):	Aluminium housing (H 220 x W 137 x D 70)

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