

CROSS SMART SENSOR

pH7 : Smart pH Sensor

Digital technology for optimized measures



The pH7 sensor has been designed to perform under hard conditions from pure mountains water with conductivity as low as 2 $\mu\text{S}/\text{cm}$, lakes and rivers (100 – 2000 $\mu\text{S}/\text{cm}$), seawater with conductivities of 50 mS/cm and to wastewater with conductivity higher than 200 mS/cm .

This sensor features a "long life" reference. The technology increases the lifetime of the probe the need to refill.

This sensor has been designed also for handheld and in situ applications which have been the most difficult situations for a pH sensor in term of sensor resistance, quick time response, minimal flow dependence and low power consumption.

FEATURES & BENEFITS

- Single pore technology instead of common ceramic, the transmissivity is 200 times the ceramic microporous
- POLISOLVE reference solution, resistant to a large number of organic solvents
- For low conductivity, even 2 $\mu\text{S}/\text{cm}$
- The smart pH sensor stores calibration and history data within the sensor. This allows you a "plug and play" system without re-calibration.

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APPLICATIONS

- Industrial waste water
- Municipal water and sewage
- Heat syrup
- Media containing dyes
- Oil
- Fermentation broth




SPECIFICATIONS

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Composition	Measuring electrode, reference electrode, temperature sensor, cable and so on.
Measuring Range	0 to 14pH
Accuracy	±0.01pH
Resolution	0.01pH
Respond Time	T90 < 10s
Reference solution	POLISOLVE
Operate Pressure	0.6Mpa
Operate Temp.	0 to 60°C
Min. Conductivity	2 µS
Power	12 to 24VDC, Max. 3.5W, by GDC
Interface	RS485 Modbus RTU
Material	CPVC, 316SS or Titanium are optional
Protection	IP68

ORDER CODE

pH7 : Smart pH Sensor	
	-C10 10' (3 m) cable -C20 20' (6 m) cable -C30 30' (9 m) cable Contact manufactory for other cable length.
pH7	-C30

Terminals

GDC-01/02 Single or Dual-Channel terminal 	GDC-04/06/08 Multi-Channels terminal up to 8 channels 	GDC-Ex Ex-proof terminal 
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