



Water pH sensor

For continuous pH measurement in difficult conditions as sewage treatment facilities. Designed for harsh applications consist of a submersible housing with built-in preamplifier and pH electrode. It incorporates also a built-in stainless steel NTC temperature sensor and an efficient lightning protection system.

Order numb.	DQA453	
pH	<i>Sensor type</i>	Gel-Polymer solid electrolyte
	<i>Range</i>	2÷12 pH
Temperature	<i>Sensor type</i>	NTC
	<i>Range</i>	0÷60°C
General information	<i>Power consumption</i>	0,2 Watt
	<i>Material</i>	Sensor protective cap: PVC Body: POV
	<i>Protection</i>	IP68
	<i>Dimension (LxD)</i>	3112x40 mm
	<i>Output</i>	Digital
	<i>Connection</i>	Integrated PU connection cable with fitted 7-pole screw connector

Accessories



Order numb.		
DQA458	Input	N.2 Conductivity+Temperature or pH+Temperatrure
	Output	2x 4÷20 mA (600 Ω max.load)
	Power supply	24 Vcc
	Resolution	0,0011 µS/cm to 1 mS/cm (dipendente dal campo di misura)
	Range (programmable)	0.00÷19.99 µS/cm 0.0÷199.9 µS/cm 0.000÷1.999 mS/cm 0.000÷19.99 mS/cm 0.000÷199.9 mS/cm 0.000÷1.000 mS/cm 0.000÷1.999 µS/cm
DQA459	Same features as DQA448	
	Power supply	230 Vca
DYA448	Pole mounting for DQA448-9	
DQA456.15	Cable for DQA453 L = 15 m	
DQA456.20	Cable for DQA453 L = 20 m	
DQA456.25	Cable for DQA453 L = 25 m	
DQA456.30	Cable for DQA453 L = 30 m	
DQA456.35	Cable for DQA453 L = 35 m	
DQA456.40	Cable for DQA453 L = 40 m	
DQA456.45	Cable for DQA453 L = 45 m	
DQA456.50	Cable for DQA453 L = 50 m	
DQA456.55	Cable for DQA453 L = 55 m	
DQA456.60	Cable for DQA453 L = 60 m	
DQA456.65	Cable for DQA453 L = 65 m	



Water Quality

Optimized combinations of sensors and accessories for water quality monitoring applications in all environmental water sources, such as rivers, streams, lakes, reservoirs and groundwater aquifers. Not applicable in very dirty waters as landfill plant percolate water reservoirs.

User's selection of available sensors to provide data for temperature (always included), conductivity, dissolved oxygen, pH, turbidity, ORP and depth.

Central cleaning system remove the fouling from the sensors reducing maintenance frequency and permits to the sensors to be installed where fouling and sediments are abundant.

Sensor has serial output, it can be connected to RS232 port of the LSI LASTEM data acquisition system.

Order numb.

DQA800

General information	<i>Memory</i>	120.000 values
	<i>Power supply</i>	12 Vdc (150 mA during acquisition)
	<i>Operating temperature</i>	-5÷50°C
	<i>Protection cage for sensor</i>	Included
	<i>Maximum depth</i>	200 m
	<i>Dimension (LxD)</i>	584x89 mm
	<i>Weight</i>	3,4 Kg
	<i>Output</i>	RS232, SDI-12, RS485
	<i>Material</i>	Plastic
	<i>Maintenance</i>	Every 2 months or less in dirty/salty water
	<i>Power supply cable</i>	Included
Temperature	<i>Range</i>	-5÷50 m
	<i>Uncertainty</i>	±0.1°C
	<i>Resolution</i>	0,01 m

Accessories

Order numb.

	DQA810	Conductivity sensor Salinity, electrical resistance and TDS can be individually set as calculated values
		<i>Range</i> 0÷100 mS/cm
		<i>Uncertainty</i> ±0.5 % of measured value , ±0.001 mS/cm
		<i>Resolution</i> 0,001 mS/cm
		<i>Calibration</i> Every month (depending by water quality) using standard KCl solution
	DQA815	Dissolved Oxygen sensor Extremely high precision through the use of the optical LDO measurement method (Luminescent Dissolved Oxygen)
		<i>Range</i> 0÷20 mg/l (or 0÷200% saturation)
		<i>Uncertainty</i> ±0,1 mg/l for values 0÷8 mg/l, ±0,2 mg/l for values >8 mg/l
		<i>Resolution</i> 0,01 mg/l
		<i>Calibration</i> every month (depending by water quality) using saturated 100% air

**Accessories****Order numb.**

DQA820	Turbidity sensor The self-cleaning system can be adjusted according to environmental conditions and can execute up to 10 cleaning cycles prior to every measurement. A measurement range of 3000 NTU permits turbidity measurement even during heavy rain or other events. <i>Range</i> 0÷3000 NTU <i>Uncertainty</i> ±1% for values < 100 NTU ±3% for values > 100 NTU < 400 NTU ±5% for values > 400 NTU < 3000 NTU <i>Resolution</i> 0, 1 NTU in the range 0...400 NTU 1 NTU in the range > 400 NTU < 3000 NTU <i>Calibration</i> Every month (depending by water quality) using microgranulate polymers
DQA825	pH sensor <i>Range</i> 0÷14 <i>Uncertainty</i> ±0,2 <i>Resolution</i> 0,01 <i>Calibration</i> Every month (depending by water quality) replacing electrode liquid and using pH standard solution. The reference electrode can be refilled quickly and easily independent of the pH sensor. The pH sensor doesn't have to be replaced when the reference electrode is empty
DQA830	ORP sensor To monitor chemical reaction, quantify ion activity or determine the oxidizing or reducing properties of a solution <i>Range</i> -999÷999 mV <i>Uncertainty</i> ± 20 mV <i>Resolution</i> 1 mV <i>Calibration</i> Every month (depending by water quality) replacing electrode liquid and using ORP standard solution.
DQA835	Level sensor <i>Range</i> 0÷25 m <i>Uncertainty</i> ±0,05 m excluding barometric pressure changes <i>Resolution</i> 0, 01 m
DQA801	Submersible cable to connect D5X to data logger. L = 10 m
DQA802	Submersible cable to connect D5X to data logger. L = 25 m
DQA802	Submersible cable to connect D5X to data logger. L = 50 m
DQA803	Submersible cable to connect D5X to data logger. L = 100 m
DQA804	Slip ring manual cable drum winch for cable longer than 50 meter
DQA805	External power adapter
DQA806	Portable rechargeable battery pack. Used in the field and during calibration procedure in laboratory
DQA807	Calibration cable. Required to connect sensor to PC during calibration procedure in laboratory

Rain presence

Technical features - MODELS



Rain presence sensor

Rain presence sensors are used when it is necessary to discriminate between rainfall and condensation. The measurement principle employed is that of conductivity between two electrodes; these are kept above environmental temperature by heaters in order to prevent condensation.

Order numb.

DQA060

<i>Principle</i>	Capacitive
<i>Power supply</i>	10÷14 Vdc
<i>Measure</i>	Presence of rain
<i>Output</i>	Relay contact (1A-40V)
<i>Operative temperature</i>	0÷50°C

Accessories

Order numb.

DYA049	Mast-mounting device for ø 45-65 mm pipe
DWA510	Cable L = 10 m
DWA525	Cable L = 25 m
DWA526	Cable L = 50 m
DWA527	Cable L = 100 m