

HORIBA

EL200

Mono & Muti-Channel Water Controller

The **EL200** is a configurable water controller that can adapt to many different probes and configurations, mono or multi-channel, among pH, ORP, UV254, Ammonia, dissolved oxygen, conductivity, chlorine, turbidity, total suspended solids (TSS) and temperature.

It includes by default:

- one pH/ORP input
- two 4-20 mA inputs for analogic probes (chlorine, turbidity)
- one RS485 port for up to 4 digital probes (dissolved oxygen, turbidity, UV254, Ammonia, TSS).
- two 4-20 mA outputs
- four relays contacts for high/low alarms, multiplexing or probe default
- one RS232 port for Modbus communication or web server with an Ethernet or Wi-Fi interface
- one RS485 port for Modbus communication

> Technical specifications

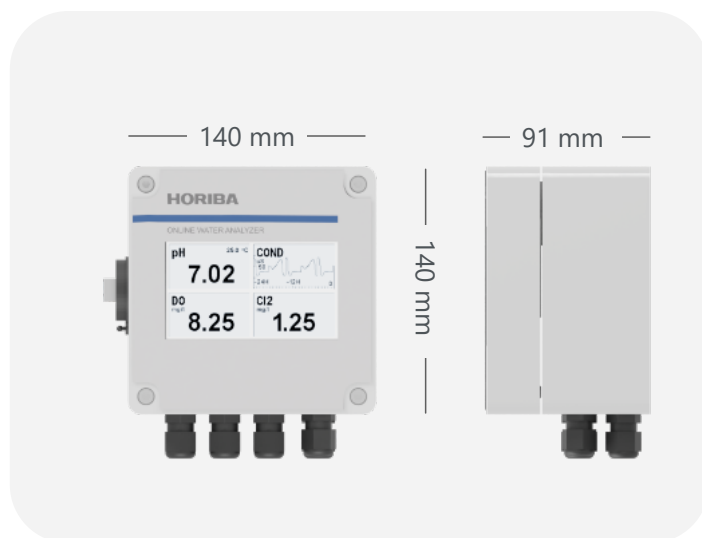
Inputs	1x pH/ORP connector
	2x 4-20 mA RS485 for 4 probes
Outputs	2x 4-20 mA active output, 2-wire or 4-wire (15V DC galvanically isolated source)
	1x 12 VDC 2x free sockets for optional modules among : 4-20 mA I/O, Relays, pH, ORP, conductivity*
Relays	4x electromechanical SPDT (form C) contact 5A
Measuring mode	Continuous
Memory	288 lines of measurements (up to 7 channels) with date and time.
Power supply	100 - 240 VAC $\pm 10\%$ 50/60Hz 20 VA max 24 V DC 0.5A max
Touch Screen	Colour TFT LCD 480x272 pixels with LED backlight
Communication	RS232 / RS485 with MODBUS protocol, USB
EMC & Safety Standard	CE, EN61010-1, EN61326
Mounting	Wall mounting
Enclosure	Aluminium with Epoxy coating, IP65
Weight	2 kg approx.

* Optional module

> Parameters available

> Probes and sensors

pH	Potentiometric	ORP	Potentiometric
Conductivity	Conductimetry	Chlorine	Amperometry
Dissolved Oxygen	Fluorescence	UV254	UV Absorbance
Turbidity	Nephelometry	COD	UV254 correlation
Total Suspended Solids	Absorbance	BOD	UV254 correlation
Ammonia	Ion Selective Electrode	TOC	UV254 correlation



> Key Features

- Multichannel : Up to 7 probes connected in single EL200
- A user-friendly interface can display all the values as well as graphs of the recorded measurements over the last 24 hours.
- A USB port allows to transfer the recorded measurements that may be imported to Excel for treatments or graphs. The USB port can also be used to save the configuration or to update the internal software.
- The EL200 controller is designed to be used outside if necessary, thanks to an aluminium casted enclosure.
- Special protection against lightning are installed on each probe inputs as well as on the power input and communication ports.
- The touch screen is protected by an acid resistant protection film to ensure an efficient long term protection .

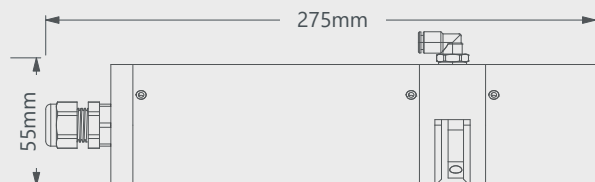
> Options

IN4-20-500	Isolated 4-20 mA input module Input resistance :100 ohm
OUT4-20-500	Isolated 4-20 mA output module Active output, max load 500 ohm
LOGIC500	Double logical inputs module Input no 1: external pulse command for measurment Input no 2: measurements inhibition Isolated 0 - 48 VDC inputs Impedance: > 10 Kohm
RELAY500	Relay module Contact rating : 2 A/220 V Maximum 6 relays modules allowed
COND500	Conductivity module Range: 0 – 100 μ S/cm to 0 – 100 mS/cm ATC input for platinum RTD 100 Ohm
PH500	pH/ORP module pH range: 0 – 14 ORP range: -2000 mV to +2000 mV ATC input for platinum RTD 100 Ohm

For available configuration, please call your nearest HORIBA representative.

UV probe

The UV200 probe offers a simple way to measure organic matter in surface water or industrial/municipal wastewater. It must be calibrated for each application to give an equivalent COD, BOD or TOC measurement depending on the composition of the sample. It is based on a new light source technology offering a compact and economical solution with a long service life.



UV200-H UV probe
Optical path 3 mm
0 - 600 Abs/m (equivalent to 0 - 2000 mg/L COD on municipal waste water)

UV200-L UV probe
Optical path 10 mm
0 - 200 Abs/m (equivalent to 0 - 100 mg/L COD on surface water)

Measurement Range 0 - 600 Abs/m (equivalent to 0 - 2000 mg/L COD on municipal waste water)
0 - 200 Abs/m (equivalent to 0 - 100 mg/L COD on surface water)

Accuracy $\pm 2\%$ on standard solution

Measurement technique UV light absorbance

Optical Path 3 or 10 mm

Response Time 10 seconds

Turbidity compensation Integrated by dual-beam method

Light source life time > 3 years

Mounting Immersion

Probe cleaning system Air cleaning option available

Temperature range -20 to 70 °C

Body Material Stainless Steel 316L

Wet Material SS 316L, PTFE, Quartz, FKM, PE, Neoprene

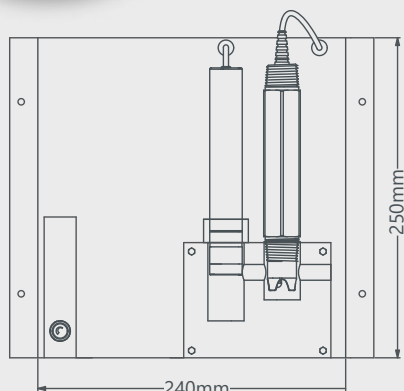
Connection Screw terminal

Cable length 10 meters

Sensor Protection IP68



The chlorine sensor is based on proven amperometric measurement technology. It is factory calibrated on standard solution. Its long-lasting membrane cap is replaceable with a refillable gel electrolyte. It is suitable for the measurement of residual chlorine (free or total) in various industrial water and wastewater applications.



CHLSET Amperometric chlorine set
0 - 20 mg/L Cl_2
Includes chlorine electrode, pH electrode, electrode holder, flow meter, mounting plate

ELCHL Amperometric chlorine electrode

ELCHL-M Membrane cap for chlorine electrode

ELCHL-R Refillable electrolyte for chlorine electrode

ELPH pH online electrode, general purpose

Measurement Range 0 - 20 mg/L

Accuracy ± 0.1 mg/L

Repeatability ± 0.1 mg/L on standard solution (25 °C)

Measurement Technique Membrane-covered, three electrode amperometric technology

Reproducibility $\pm 4\%$

Response Time 90 second to 90% (t90), 25 °C

Operating Temperature 0 to 50 °C

Operating Pressure 15 psi (1 bar)

Operating pH 4 - 12, automatic pH compensation

Flow Requirement 30 to 60 L/h

Body Housing : PVC, ABS

Material Membrane : Hydrophilic PTFE

Electrode : Silver-Silver Halide/Gold/316SS

Temperature Compensation In-built, Automatic

Connection Screw terminal

Cable Length 1 meter

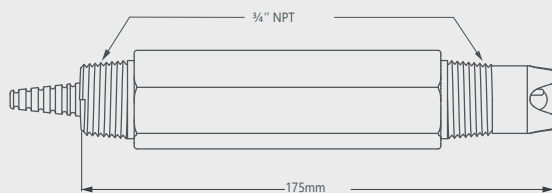
Sensor Protection IP65

Chlorine sensor



pH sensor, general purpose

The general purpose pH sensor with 3/4" NPT front and rear threads is a rugged pH probe with Ryton body, suitable for many industrial water applications. Front and rear mounting threads allow in-pipe (continuous measurement) or submersible installations of the pH sensor. This pH sensor offers excellent chemical and shock resistance.



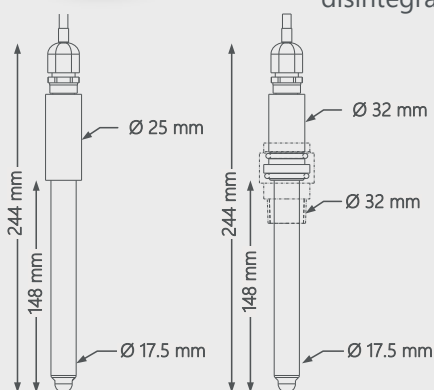
ELPH pH online electrode, general purpose
Range : 0 - 14
6 meters of cable length
Built-in ATC

pH Range	0 - 14
Response Time	5 seconds to 95% of full response
pH Sensor Type	Convertible style combination pH sensor
Body Material	Ryton
Reference	Double Junction with porous Teflon
Mounting	Immersion or In-line
Temperature Range	0 - 80 °C
Maximum Pressure	100 psi (7 bar)
Temperature Element	Pt100 RTD
Temperature Compensation	Automatic
Connection	Screw terminal
Cable Length	6 meters
Mounting threads	3/4" NPT threads, front & rear
Sensor Protection	IP68



Self Cleaning pH Electrode

The pH-responsive glass membrane is coated with porous TiO₂ and irradiated with UV light from within the electrode. This process activates the TiO₂ coating, resulting in photocatalytic hydrophilicity and the formation of a water film (hydrophilic layer) on the surface, effectively preventing the adhesion of organic contaminants. Furthermore, the activated TiO₂ facilitates the radicalization of water (H₂O) and oxygen, enabling the disintegration of organic contaminants adhering to the external surface of the electrode.



6122S Self-cleaning pH probe (Immersion holder type)
6122SA Self-cleaning pH probe (Direct screw-in thread)
UVLED-500 Power module for self cleaning pH electrode

Electrode type	Gel-filled Self Cleaning pH Electrode
Self cleaning	TiO ₂ coating membrane with UV light irradiation
Measuring range	0 - 14 pH ⁽¹⁾⁽²⁾
Sample Temperature Range	0 - 40 °C ⁽²⁾
Sample Pressure Range	0 - 0.1 MPa
Sample conductivity Range	500 µS/cm or higher
Electrode structure	GRT composite electrode
Internal solution reference electrode	Water-insoluble polymer gel Potassium chloride supersaturated
Wetted Parts	Glass, TiO ₂
Cable Length	5m / 10 m

⁽¹⁾When used in range of 0 to 2 pH or 12 to 14 pH, the electrode life will be shortened
⁽²⁾At sample temperature above 30°C, the electrode life will be shortened

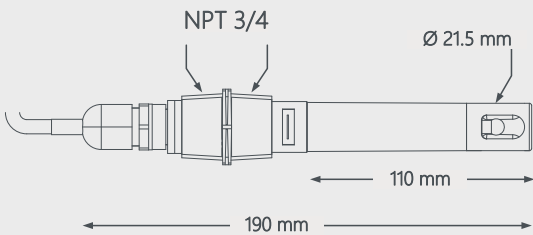
Additional information available on bulletin: HAE-R0366D

pH Electrode, Gel-filled

Our gel-filled pH electrodes are easy to use and maintain. They are able to adapt to various sample conditions.

Gel-filling technology has been improved to achieve 2 years life expectancy.⁽¹⁾ Stability has been enhanced with the adoption of a special two-layer structure for the liquid junction and water insoluble polymer gel. It minimizes the influences caused by flow-rate during measurement, and is able to support samples with conductivity as low as 10µS/cm.

⁽¹⁾Life expectancy varies depending on factors such as sample type, frequency of use and maintenance



- 6155-60B** pH electrode, gel filled, general purpose
Cable type
- 6155-C** pH electrode, gel filled, general purpose
Connector type

Additional information available on bulletin: HAE-T0258B

Electrode structure	GRT composite electrode
Measurement range	0 to 14 pH
Sample water temperature	-10 to 100°C (No freezing)
Sample water pressure	Up to 0.7 Mpa (under 40°C)
Sample water conductivity	10 µS/cm or more, flowrate needs to be lower than 0.05 m/s
Liquid junction structure	Double liquid junction structure
Comparative electrode internal liquid	Water insoluble polymer gel KCl supersaturated
Wetted materials	Glass, PVDF, FKM, PE
Cable Length	5/10/15/20 meters

pH Electrode - HF/Alkaline resistant, Tip replaceable

The pH tip and liquid-junction tip are cartridges for easy replacement and maintenance. The body is made of PPS (polyphenylene sulfide), which has excellent heat and chemical resistance and is resistant to breakage. It also features liquid grounding to resist noise. The **6171-50B** model features a response film designed for **hydrofluoric acid resistance** at the pH tip, while the liquid-junction tip is made of porous alumina. It has an approximate service life of one month under severe conditions, such as a hydrofluoric acid concentration of 1,000 ppm at 25°C and a pH of 3-4.

The **6172-50B** model is equipped with an **alkali-resistant response film**. It has an approximate service life of three months under severe conditions, such as exposure to 0.1 mol/L caustic soda at 60°C.



- 6171-50B** Hydrofluoric Acid resistant pH electrode
- 7123** Hydrofluoric Acid resistant pH tip
- RE-01** Liquid junction tip (alumina) for 6171-50B
- 6172-50B** High alkali resistant pH Electrode
- 7124** High alkali resistant pH tip
- RE-02** Liquid junction tip (zirconia) for 6172-50B

Additional information available on bulletin: HAE-T0247C

Model	6171-50B HF resistant	6172-50B High Alkali resistant
Liquid Junction	Alumina ceramic	Zirconia ceramic
Usuable temperature range	-10 to 60°C	
Usuable pressure range	0 to 0.03 MPa	
Cable Length	5 m	

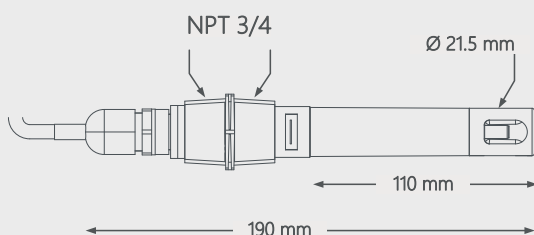
ORP Electrode, Gel-filled

Our gel-filled ORP electrodes are easy to use and maintain. They are able to adapt to various sample conditions.

Gel-filling technology has been improved to achieve 2 years life expectancy.⁽¹⁾

Stability has been enhanced with the adoption of a special two-layer structure for the liquid junction and water insoluble polymer gel. It minimizes the influences caused by flow-rate during measurement, and is able to support samples with conductivity as low as 10 μ S/cm.

⁽¹⁾Life expectancy varies depending on factors such as sample type, frequency of use and maintenance



6855-60B ORP electrode, gel filled, general purpose
Cable type
6855-C ORP electrode, gel filled, general purpose
Connector type

Additional information available on bulletin: HAE-T0258B

Electrode structure MR composite electrode

Measurement range ± 1400 mV

Sample water temperature -10 to 100°C (No freezing)

Sample water pressure Up to 0.7 Mpa (under 40°C)

Sample water conductivity 10 μ S/cm or more, flowrate needs to be lower than 0.05 m/s

Liquid junction structure Double liquid junction structure

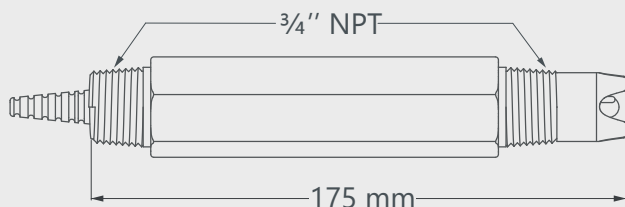
Comparative electrode internal liquid Water insoluble polymer gel
KCl supersaturated

Wetted material Platinum, PVDF, FKM, PE

Cable Length 5/10/15/20 meters

ORP Sensor, general purpose

The general purpose ORP Sensor with 3/4" NPT front and rear threads is a rugged ORP probe with a Ryton body suitable for many industrial water applications. Front and rear mounting threads allow in-pipe (continuous measurement) or submersible installations. This ORP sensor offers excellent chemical and impact resistance.



ELORP ORP online electrode
Range : -2000 mV to +2000 mV
6 meters of cable

ORP Range -2000 to +2000 mV

Sensor Type Convertible style combination ORP sensor

Body Material Ryton

Sensing Element Platinum

Reference Double Junction with porous Teflon

Mounting Immersion or In-line

Temperature Range 0 - 80 °C

Maximum Pressure 100 psi (7 bar)

Connection Screw terminal

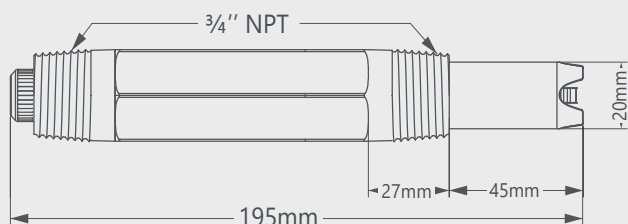
Cable Length 6 meters

Mounting Threads 3/4" NPT threads, front & rear

Sensor Protection IP68

Conductivity sensor, General purpose

The conductivity sensor with 3/4" NPT thread is a robust probe with a polypropylene body suitable for many industrial water applications. The mounting thread allows in-pipe (flow-through) installations of the conductivity sensor. This conductivity sensor offers excellent chemical and impact resistance.



Dimensions and specifications above apply only for ELCOND-1 / ELCOND-10 / ELCOND-0.1

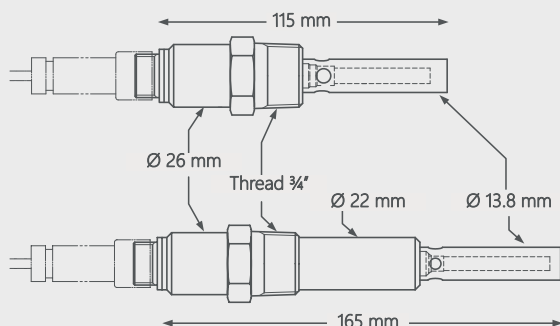
	Conductivity online electrode
	Built-in ATC RTD 100 Ohm
	6 meters cable
ELCOND-0.01	0 - 200 µS/cm (K=0.01)
ELCOND-0.1	0 - 2000 µS/cm (K=0.1)
ELCOND-1	0 - 20 mS/cm (K=1)
ELCOND-10	0 - 200 mS/cm (K=10)
	INDUCTIVE conductivity online probe
	0 - 100 mS/cm
	Built in temperature compensation
	3 meters cable

Body Material	Polypropylene
Mounting	In-line (flow-through)
Temperature Range	0 - 80 °C
Maximum Operating Pressure	100 psi (7 bar)
Temperature Element	Pt100 RTD
Temperature Compensation	Automatic
Mounting Thread	3/4" NPT threads
Connection	Screw terminal
Cable Length	6 meters
Sensor Protection	IP68



Low Conductivity sensors - ESH series

These general-purpose electroconductivity sensors are useful for controlling pure water and boiler water and for monitoring wastewater treatment. Two types are available: a lead type in which the cable and the sensor are integrated, and a connector type in which the cable can be removed from the sensor.



ESH-1	Conductivity electrode
	0 - 2000 µS/cm
ESH-01	Conductivity electrode
	0 - 200 µS/cm
ESH-001	Conductivity electrode
	0 - 20 µS/cm

Body material	SS 316
Electrode material	SS 316 ⁽¹⁾
Conductivity Range	ESH-001: 0.00 to 20.00 µS/cm ESH-01: 0.0 to 200.0 µS/cm ESH-1 : 0 to 2000 µS/cm
Repeatability	Within ±0.5% of the full scale (response for equivalent input) Within ±5% of the full scale in the range of 2000 µS/cm
Linearity	Within ±0.5% of the full scale (response for equivalent input) Within ±5% of the full scale in the range of 2000 µS/cm
Cable length	10 m

⁽¹⁾Titanium electrode available on demand

Additional information available on bulletin: HAE-T0331B

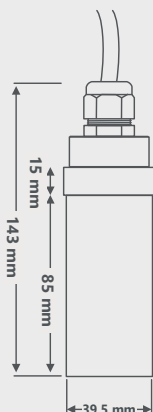


Turbidity probe

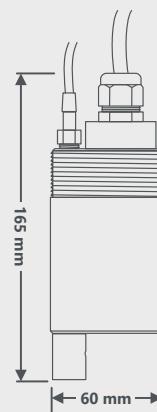
The turbidity probe is based on the nephelometric method (ISO 7027 - EN 27027). A light beam is sent to the sample through an optical lens. The light scattered at 90° by the particles in suspension is collected by the probe through a second lens and it is converted into an electrical signal proportional to the turbidity of the sample. The probe uses infrared light and the measurement is not affected by the colour of the sample. They are suitable for turbidity measurement in water quality monitoring and industrial water treatment and aquaculture.



Measurement Range 0 - 40 NTU, 0 - 400 NTU
Measurement Technique Nephelometric
Detector 90° scattered light detector
Light Source Infrared
Sample Temperature Range 0°C to 50 °C
Working Pressure 6 bar maximum at 25 °C
Body Material PVC
Connection Screw terminal
Mounting In-line or In-flow
Cable Length 10 meters
Sensor Protection IP68



EXT-TURBNEPH-L **Nephelometric turbidity probe low range**
 0 - 40 NTU
 10 meters of cable length



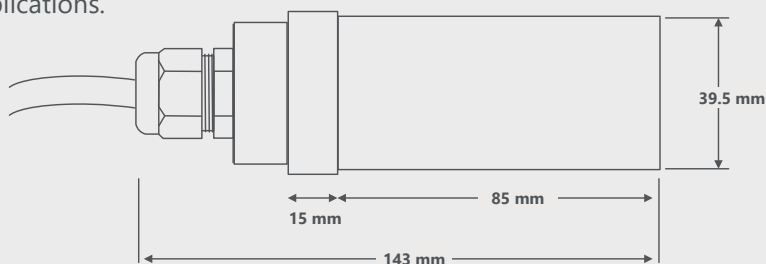
EXT-TURBNEPH-H **Nephelometric turbidity probe high range**
 0 - 400 NTU
 10 meters of cable length

Turbidity probe high range

The turbidity and suspended solid measurements are measured using the back scattering method. In this process, a light beam is directed at the sample through an optical lens. Suspended particles within the sample scatter the light, and this backscattered light is captured by the probe through a second lens. This light is then converted into an electrical signal that correlates with the turbidity level of the sample. However, exposure of the probes to high external light can affect the accuracy of turbidity measurements. To minimize this influence, the probe should be installed in a way that protects the lens from direct sunlight or stray light. These probes are effective for turbidity measurements in water quality monitoring, industrial water treatment, and aquaculture applications.



Measurement Range 0 - 10 000 FTU
Measurement Technique Back scattering
Detector Photodiode
Light Source Infrared light
Temperature Range -5 to 50 °C
Working Pressure 0 - 6 bar at 25 °C
 0 - 3 bar at 50 °C
Body Material PVC
Connection Screw terminal
Mounting In-line or In-flow
Cable Length 10 meters
Sensor Protection IP68

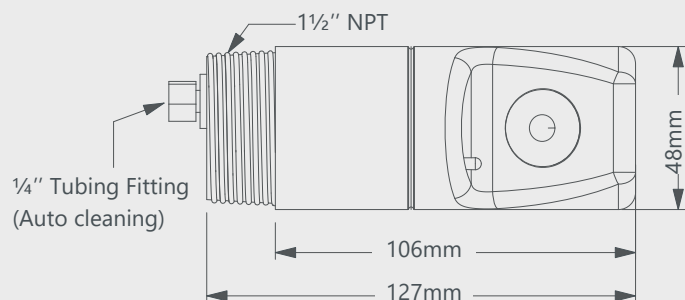


EXT-TURBBACKS-VH **Backscattering turbidity probe very high range**
 0 - 10 000 FTU
 10 meters of cable length



Dissolved Oxygen probe (Auto cleaning)

The Optical DO probe is based on proven fluorescence optical technology suitable for most industrial applications. It is robust, without spare sensor caps and has an automatic cleaning function. It is designed for submersible mounting in an open channel. The optical DO probe is suitable for measuring dissolved oxygen in various water and wastewater applications.



DO-F-AC Dissolved oxygen probe by fluorescence with automatic cleaning
Range : 0 - 25 mg/L O₂
10 meters of cable

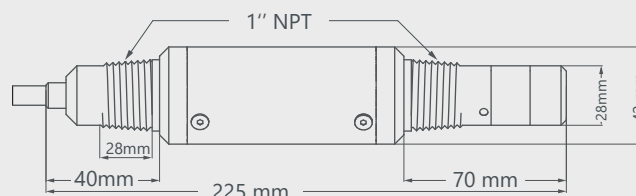
- Measurement Range** 0 - 25 mg/L
- Stability per 24H** 0.02 mg/L
- Repeatability** 0.02 mg/L
- Working Temperature Range** 0 to 60 °C
- Measurement Technique** Fluorescence Optical Technology
- Accuracy** 1% of reading or 0.05 ppm whichever is greater
- Body Material** Epoxy, Polyurethane and PVC
- Sensor Drift** Less than 2% per year
- Maximum Pressure** 100 psi (7 bar)
- Temperature Compensation** In-built, Automatic
- Sensor Cleaning System** Air or water wash
- Mounting** Submersible
- Mounting threads** 1 1/2" NPT
- Connection** Screw terminal
- Cable Length** 10 meters
- Sensor Protection** IP68

Dissolved Oxygen probe

The process optical DO probe is based on proven luminescent optical technology suitable for most industrial applications. It offers full performance, replaceable sensor caps and long life. Front and rear mounting threads allow for in-pie (continuous measurement) or submersible. The optical DO probe is suitable for measuring dissolved oxygen in various water and wastewater applications.



- Measurement Range** 0 - 20 mg/L
- Accuracy** ± 0.1 mg/L
- Working Temperature Range** 0 to 50 °C
- Measurement Technique** Luminescent Optical Technology
- Sensor Cap** Replaceable, Pre-calibrated
- Body Material** Stainless Steel 316 body
- Maximum Pressure** 100 psi (7 bar)
- Maximum Temperature** 80 °C
- Temperature Compensation** In-built, Automatic
- Mounting** Immersion or In-line
- Connection** Screw terminal
- Cable Length** 6 meters
- Mounting Threads** 1" NPT threads, front & rear
- Sensor Protection** IP68



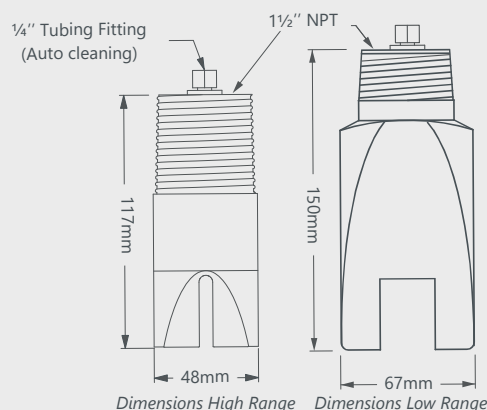
- DO-F** Dissolved oxygen by fluorescence
Range : 0 - 20 mg/L O₂
6 meters of cable length
- DO-F-S** Replacement sensor cap

Total suspended probe

The Total Suspended Solid (TSS) probe operates on the principle of single-gap light absorption to detect the presence of suspended solids. The sensors incorporate self-cleaning optics by air or water jet. Applications include measurements of total suspended solids concentration from Mixed Liquor Suspended Solids (MLSS), Return Activated Sludge (RAS), Waste Activated Sludge (WAS), clarifier effluent and plant effluent.



Measurement Low Range 0 - 1 500 mg/L
Measurement High Range 250 - 30 000 mg/L
Accuracy 5 mg/L of reading
Repeatability 1% of reading
Measurement Technique IR light absorption
Response Time 95% is under 60 seconds
Material Epoxy, PU and PVC
Sensor Drift Less than 1% per year
Mounting Submersible
Cleaning System Air or water wash
Working Temperature 0 to 60 °C
Mounting Thread 1½" NPT
Connection Screw terminal
Cable Length 10 meters
Sensor Protection IP68



EXT-TURB-H Total suspended solid (TSS) probe high range
 250 - 30 000 mg/L TSS
 10 meters of cable length
EXT-TURB-L Total suspended solid (TSS) probe low range
 0 - 1 500 mg/L TSS
 10 meters of cable length

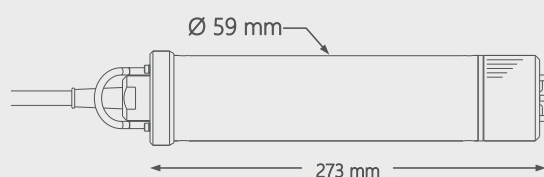


AVAILABLE SOON

Ammonia probe

AM-2000 is an ammonia probe using ion selective electrode method which is designed for aeration control in wastewater treatment.

The advanced intelligence of this system is highlighted by its sample adjustment function and automatic potassium ion concentration compensation, ensuring precise and reliable measurements. Designed for easy maintenance, it features a replaceable chip that can be swapped without the need for tools, and when combined with a new-type ultrasonic cleaner, it significantly enhances antifouling properties. The flat sensor surface is engineered to prevent bubble and stain accumulation, eliminating the need for measurement reagents. Built to be tough, the ion sensor facilitates long-term stable measurement, supported by a new ion chip internal solution that ensures measurement stability. Additionally, the new structure of the reference chip further achieves stable measurement performance.



AM-2000 Ammonia probe

7691 Ammonia ion chip

7692 Potassium ion chip for compensation

7211 Reference chip

Additional information available on bulletin: HAE-T0226Bb

Electrode type ISE (Ion Selective Electrode)

Measuring range $\text{NH}_4\text{-N}$: 0 - 1000 mg/L

Sample Temperature Range 0 - 40°C (no freezing)

Repeatability $\pm 3\%$ (Reading) or ± 0.2 mg/L; whichever is greater (Standard solution)

Potassium ion compensation Compensation range: Potassium ion concentration is not more than 10 times the ammonium ion concentration and under 1000mg/L
 Compensation error: $\pm 20\%$ (measured value)

Material SUS316, FKM, PVC

Weight Approx. 2.7 kg (including 10 m cable)

Cable Length 10 m

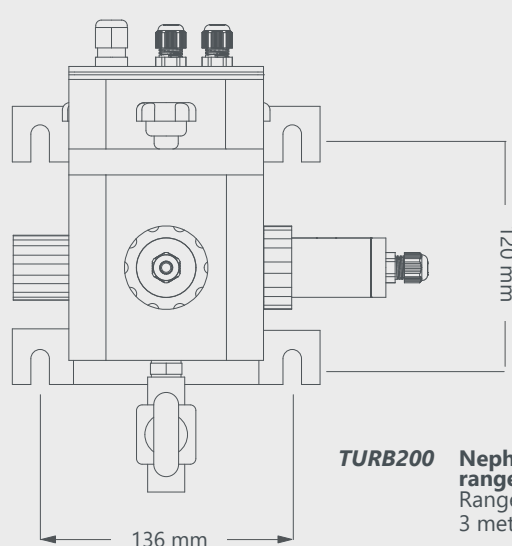
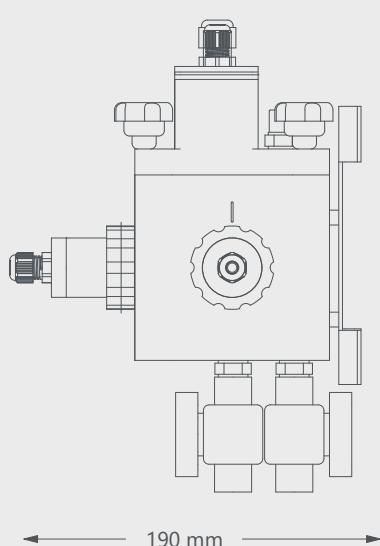


TURB200 Turbidity sensor

The turbidity sensor is based on the nephelometric method (ISO 7027 - EN 27027). A light beam from a laser diode is sent to the sample through an optical lens. The light scattered at 90 degrees by the suspended particles is collected by a photodetector and converted into an electrical signal proportional to the turbidity of the sample.

The sensor uses 650 nm red laser light or, on request, 860 nm infrared laser light so that the measurement is not affected by the colour of the sample. It is suitable for measuring turbidity in drinking water and aquaculture as well as at the outlet of municipal or industrial wastewater treatment plants.

A built-in bubble trap avoids the effect of bubbles on the measurement. The sensor can be easily opened for calibration with formazin solution. A valve at the bottom allows the bottle to be emptied during calibration operations or for manual cleaning. The turbidity sensor must be connected to EL200 controller for display, calibration and transmission of measurements by RS232/RS485 under Modbus protocol.



TURB200 Nephelometric turbidity sensor low range
Range : 0 - 100 NTU
3 meters of cable

Measurement Method Nephelometric

Measurement Range 0 - 100 NTU

Detection Limit 0.015 NTU

Repeatability ± 0.01 NTU

Accuracy $\pm 2\%$ or ± 0.015 NTU whichever is greater up to 20 NTU, $\pm 5\%$ above 20 NTU

Detector 90° scattered light detector

Light source Visible laser diode (or infrared laser diode on request), lifetime > 5 years

Bubble trap Integrated

Capacity 250 mL

Inlet/Outlet fittings 9.6 mm external diameter plastic tubing

Operating temperature range -5 to 60 °C

Working pressure Maximum 3 bar at 25°C

Body material PVC

Wet Material PVC, PP, FKM, Quartz

Connection Screw terminal

Cable length 3 meters

Mounting On wall by 4 screws

Sensor protection IP65