

➤ DISSOLVED OXYGEN MEASUREMENT

ACTEON 2030 TRANSMITTER

Potentiometric measurement technology

- Robust, watertight, easy to install,
- Widescreen graphic display: instant measurements, trend line, relay state, calibration state,
- Fast and simple intuitive programming;
- 4-20 mA outputs, 2 programmable relays.



PHYSICO-CHEMICAL TRANSMITTERS

Fields of application

- Wastewater treatment (nitrification/denitrification monitoring in biological tanks);
- Drinking water (raw water control),
- Industrial effluent treatment (waste controls, etc.),
- Surface water monitoring,
- Fish farming, etc.

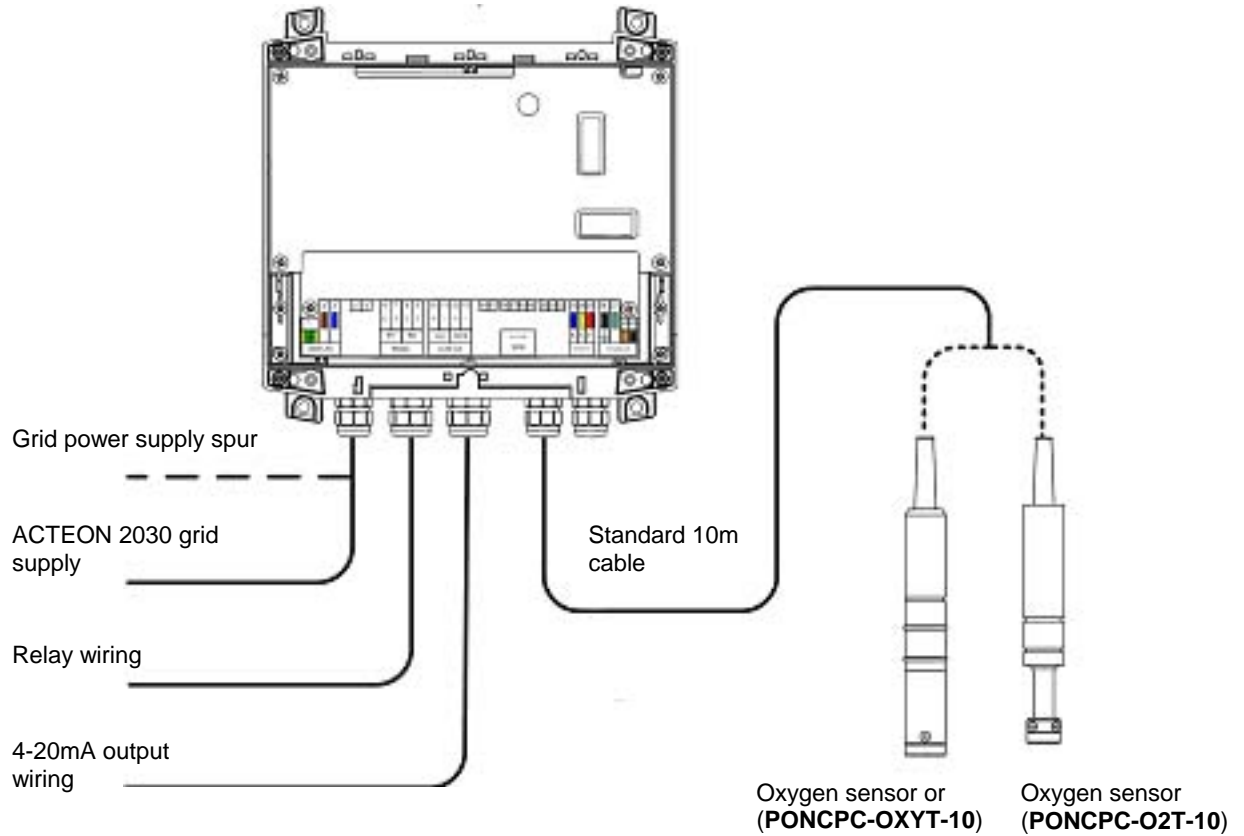
Advantages

- Widescreen graphic display for up to 24h data graphs,
- Six menus for intuitive programming,
- Guided 1 or 2 points calibration with plausibility checks,
- 2 x 4-20 mA outputs (Oxygen and temperature), 2 relay outputs (with several programming modes).

Technical specifications

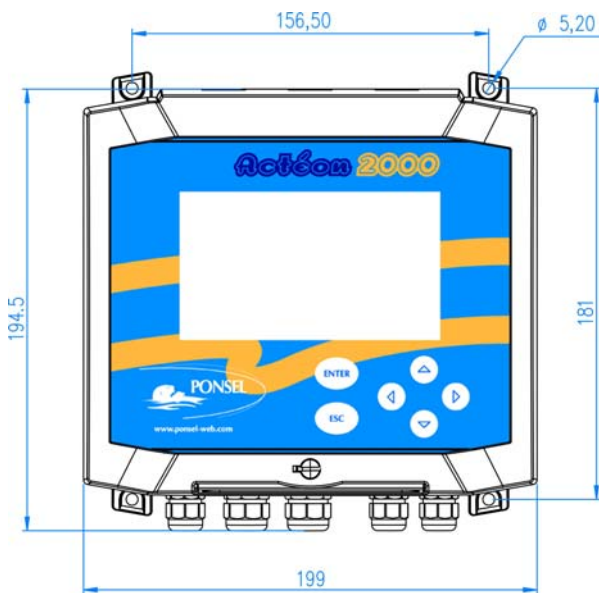
Oxygen measurement range	0.00 to 50.00 mg/l or 0.0 to 200.0%
Oxygen measurement accuracy	± 0.2mg/l or ± 2%
Temperature measurement range	-10 to +50 °C
Measurement accuracy (T°C)	± 0.1°C
Casing	ABS
Environmental rating	IP 65
Protection	-25°C to + 55°C
Dimensions (L x W x D) / Weight	173 x 195 x 103mm / 1.5kg
Display	Widescreen back-lit graphic display: 240 x 128 pixels (108 x 58mm)
Power supply	230/115VAC 60Hz, Optional: 24Vdc
Max power consumption	10VA
4-20mA outputs	2 galvanic isolation outputs (max load 700 Ohms): - Adjustable from 0.00 to 50.00 mg/L or from 0.0 to 200.0 %/L - Adjustable from -10 to +50 °C
Relay outputs	2 relays, configurable in 3 different modes: - Adjustment in alarm mode (1 O ₂ and 1 temperature (°C) threshold) - Adjustment in regulation mode (two O ₂ thresholds with two relays) - Adjustment on 1 High threshold/Low threshold relay forced Start-up / Shutdown

Overview

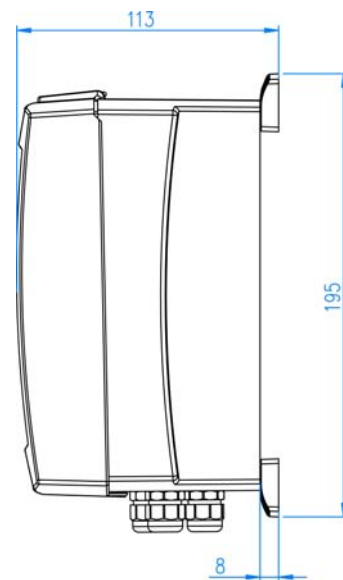


PHYSICAL-CHEMICAL TRANSMITTERS

Dimensions

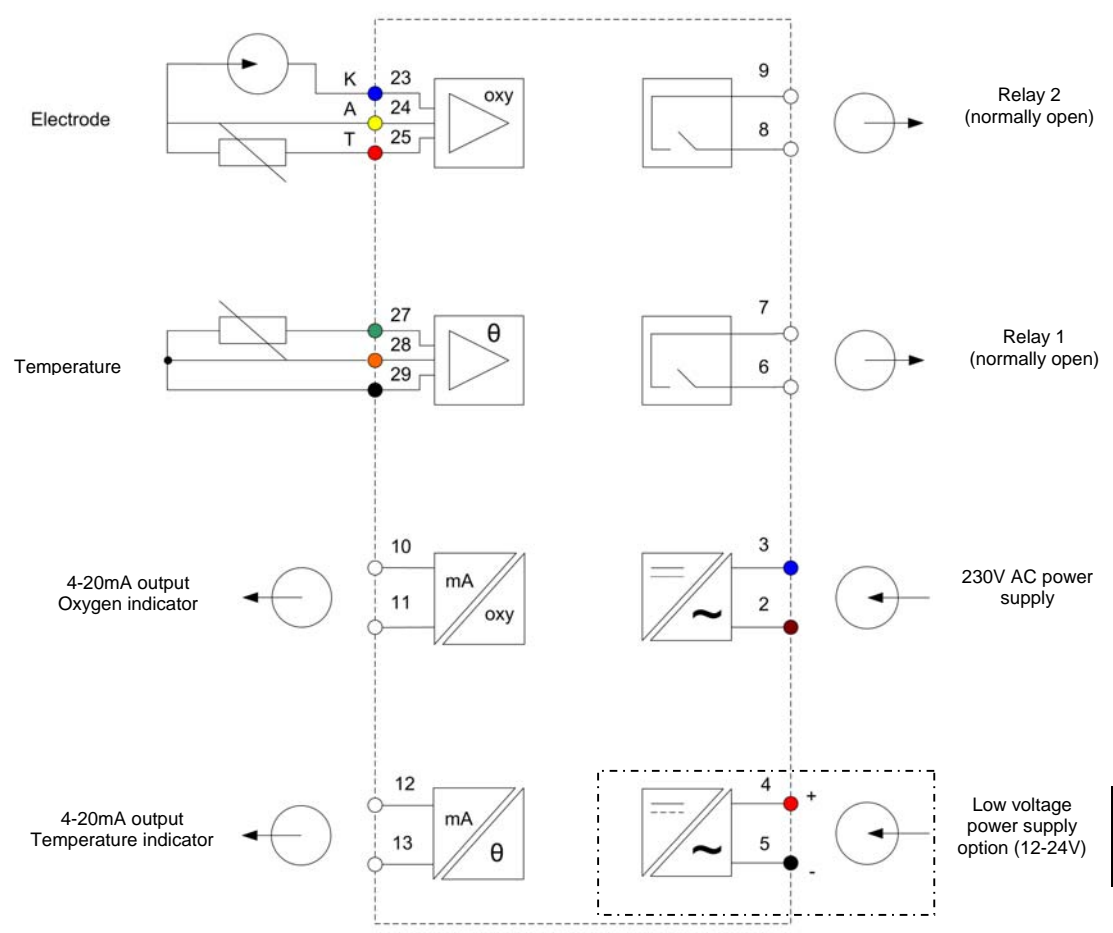


ACTEON 2000 Front view



ACTEON 2000 Side view

Electrical connections

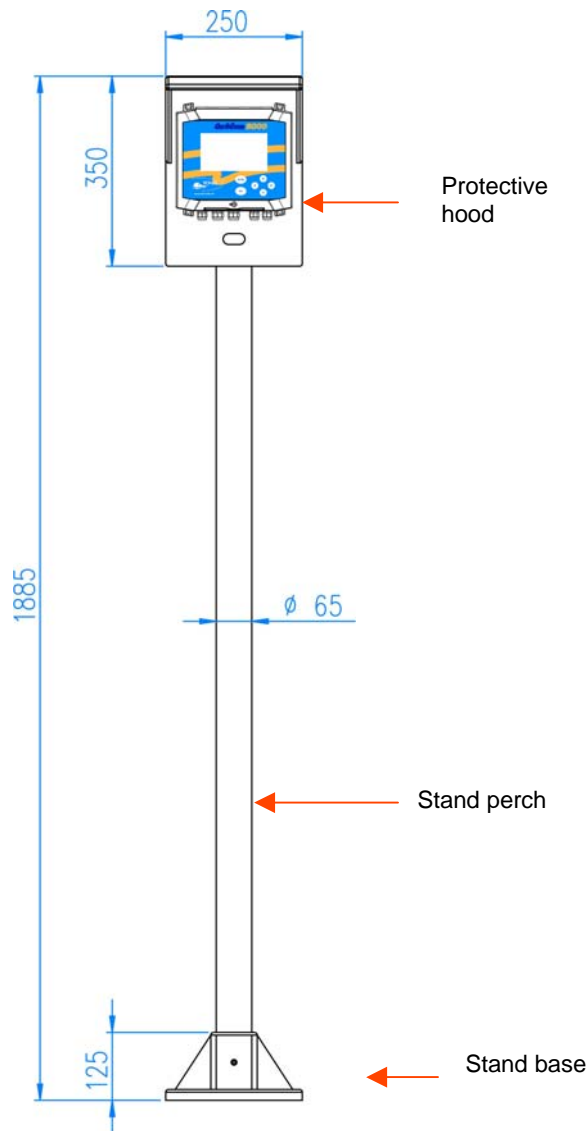


*Only with
12-24V
option*

PHYSICO-CHEMICAL TRANSMITTERS

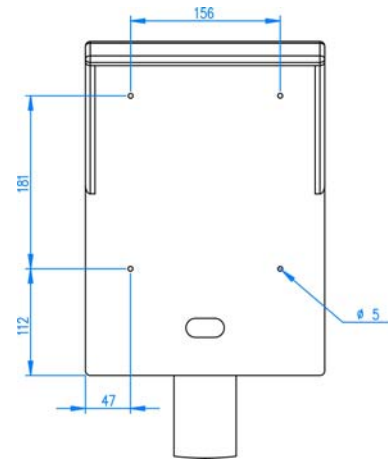
ACTEON 2030 MOUNTING ACCESSORIES

Stand and protective hood: PON-PDPVC-1

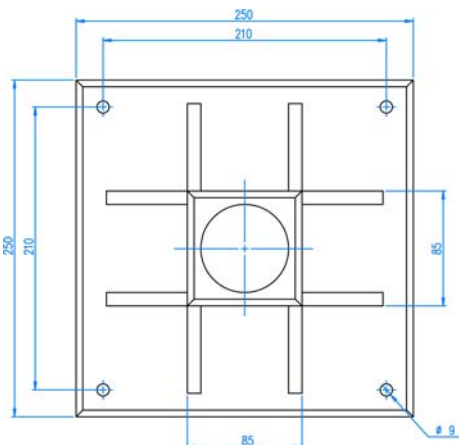
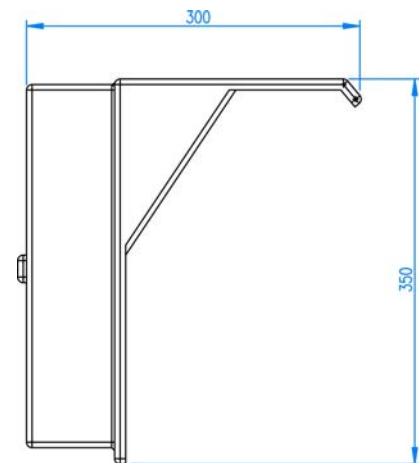


Stand hood – Front view:

The ACTEON is secured to the hood with 4 M5 type screws.



Stand hood – Side view



Ground fixing stand base

Fix the stand base onto a flat surface with 4 screws (under M9 diameter)

PHYSICO-CHEMICAL TRANSMITTERS

OXYGEN SENSOR : PONCPC-OXYT-10

The OXYT oxygen sensor is widely used in waste water treatment (plant inlet, aeration tank nitrification/denitrification control, waste), in natural water.

This slow sensor is based on the Polarographic principle and is ideally suited for process regulation applications.

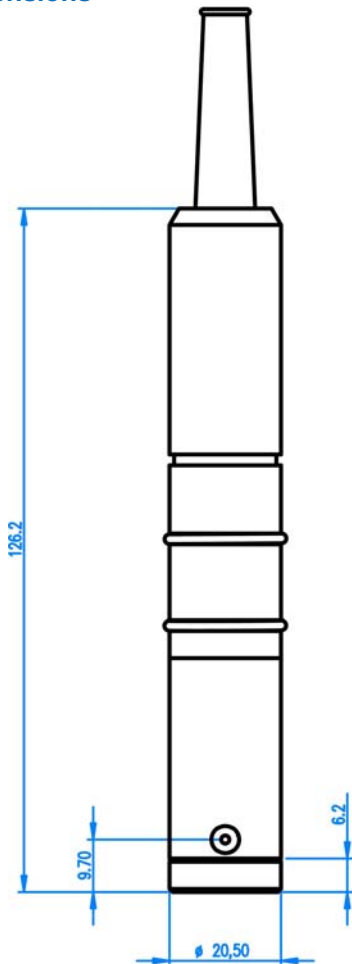


Technical specifications

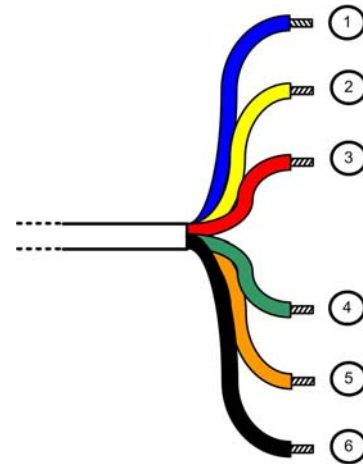
Measurement principle	Polarographic with platinum cathode, silver anode, 50 µm PTFE membrane, stainless steel and delrin. Pt100 temperature measurement.
Measurement ranges	0.00 to 50.00mg/l or 0.0 to 200.0%
Weight	100 g
Protection	IP68
Cable	6 wire shielded, 10m standard length (other lengths on request)
Pressure	5 bars
Operating temperature	0-60°C

PHYSICO-CHEMICAL TRANSMITTERS

Dimensions



Electrical connection



- 1 : K cathode
 - 2 : A anode
 - 3 : T
 - 4 : (+) Pt 100
 - 5 : (-) Pt 100
 - 6 : (-) Pt 100 compensation (For long cable lengths)
- } Oxygen sensor
- } Temperature sensor

OXYGEN SENSOR: PONCPC-O2T-10

The O2T oxygen sensor is widely used in natural water monitoring stations, fish farms, etc.

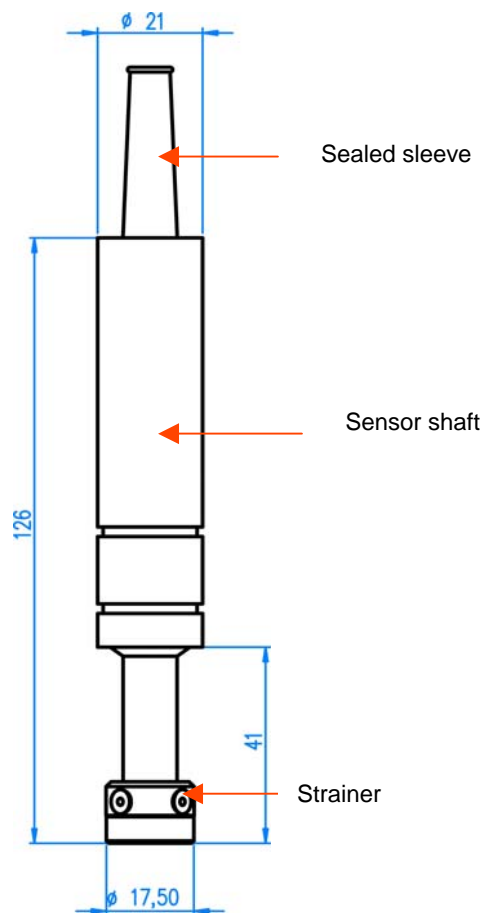
This fast sensor is based on the Polarographic principle and is ideally suited for instant measurement applications.



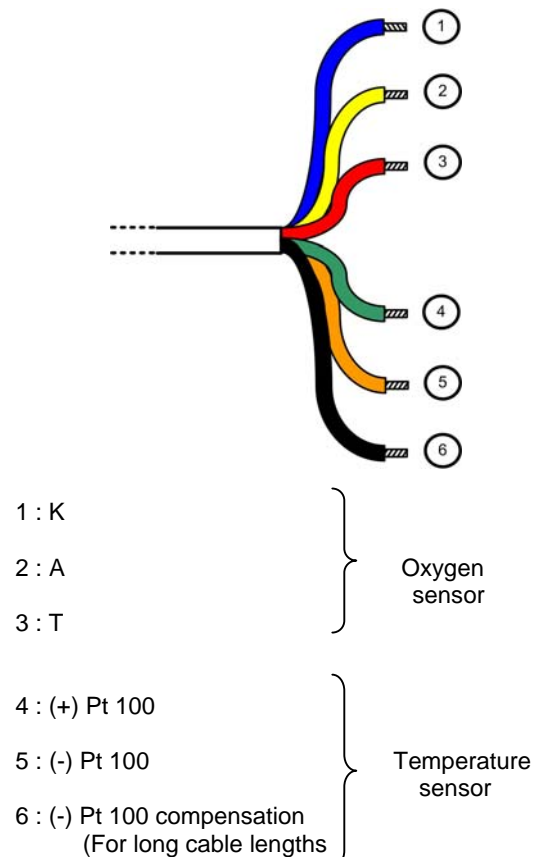
Technical specifications

Measurement principle	Polaeographic with platinum cathode, silver anode, 20 µm PTFE membrane, stainless steel and delrin. Pt100 temperature measurement.
Measurement ranges	0.00 to 50.00mg/l or 0.0 to 200.0%
Weight	100 g
Protection	IP68
Cable	Shielded coaxial, 10m standard length (other lengths on request)
Pressure	5 bars
Operating temperature	0-60°C

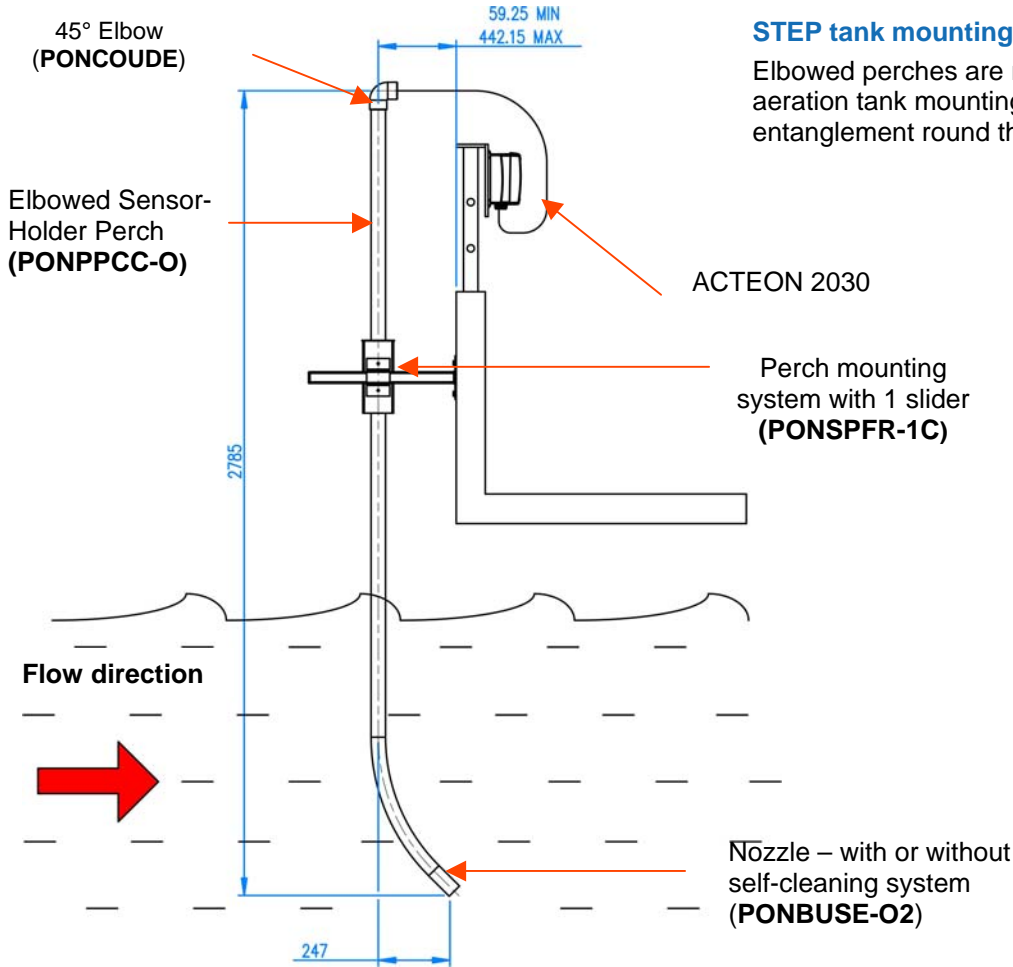
Dimensions



Electrical connection



TANK AND OPEN CHANNEL MOUNTING ACCESSORIES

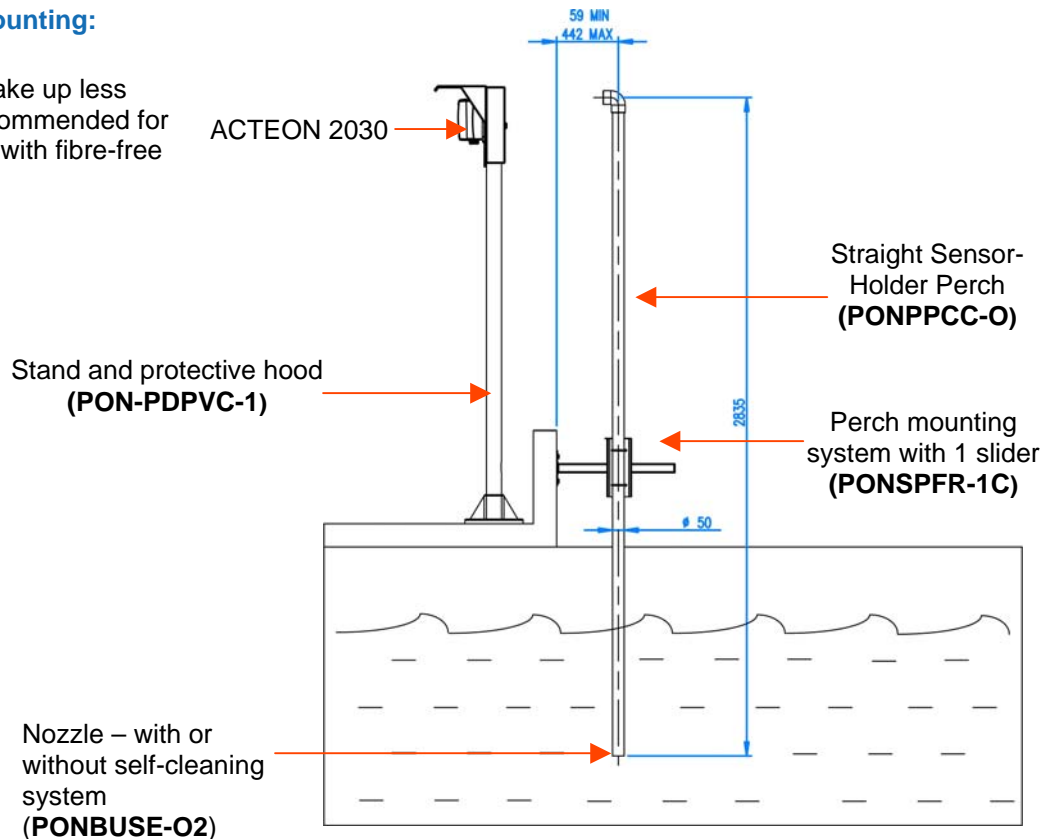


STEP tank mounting: Elbowed perch

Elbowed perches are recommended for aeration tank mounting to prevent fibre entanglement round the sensor.

Open channel mounting: straight perch

Straight perches take up less space and are recommended for channel mounting with fibre-free water.

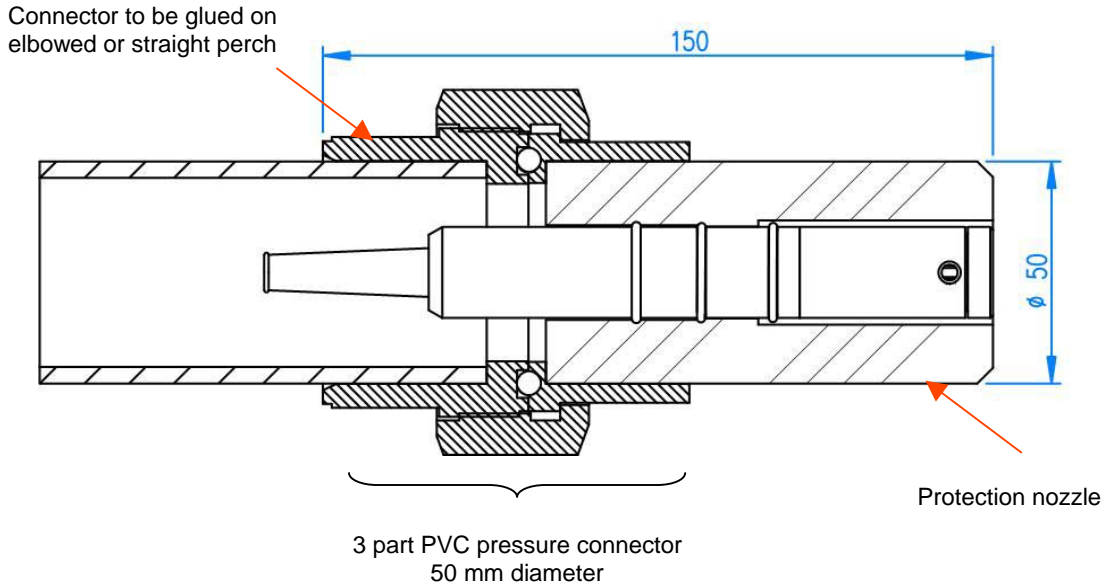


PERCH MOUNTING NOZZLES

➤ OXYT sensor

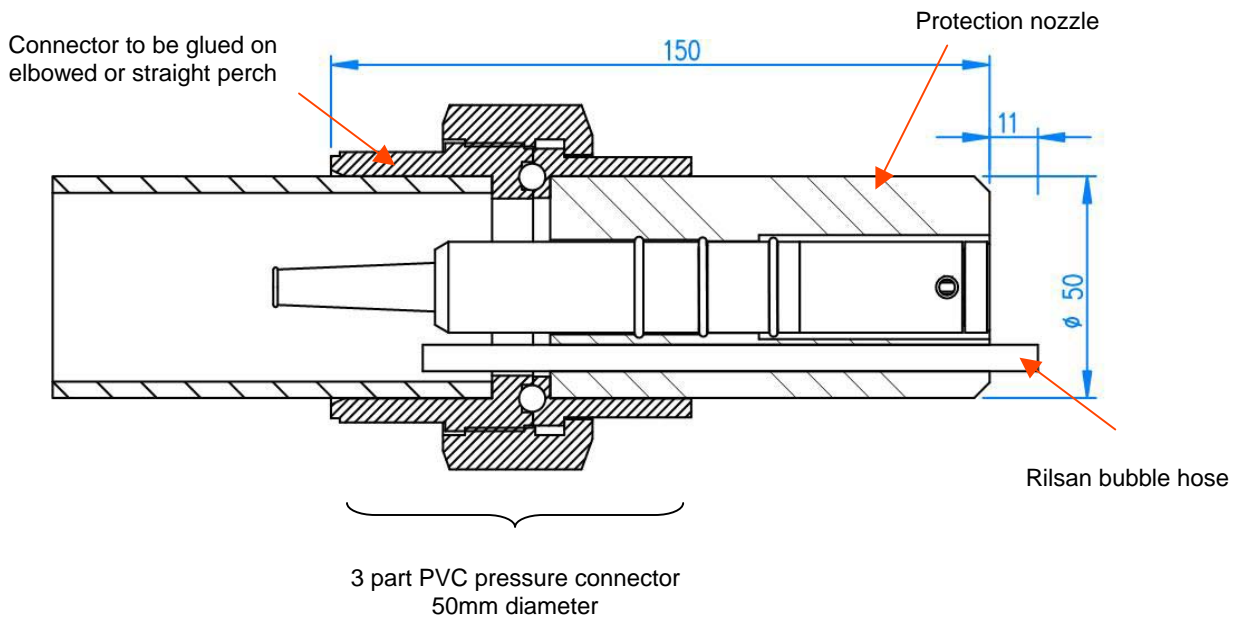
Nozzle for OXYT sensor without cleaning system (PONBUSE-O2)

The OXYT sensor holding nozzle can be used with PONSEL elbowed or straight perches or adapted to your own perch.



Nozzle for OXYT sensor – self-cleaning (PONBUSE-O2-NET)

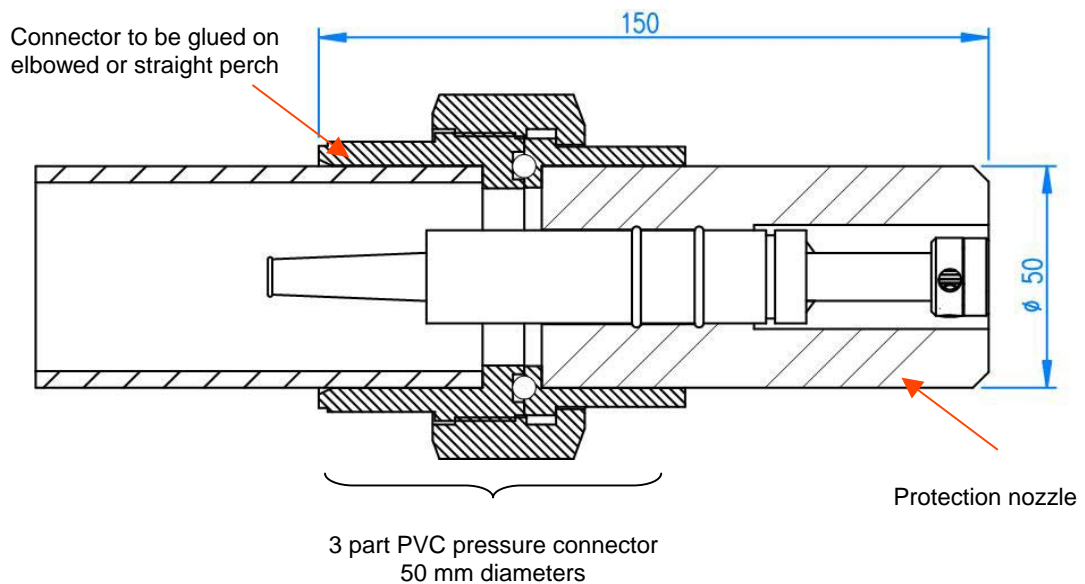
The OXYT sensor holding nozzle can be used with PONSEL elbowed or straight perches or adapted to your own perch. A specially designed aperture in the nozzle can be used to fit a compressed air inlet near the membrane to ensure self-cleaning in fouling environments.



➤ O2T sensor

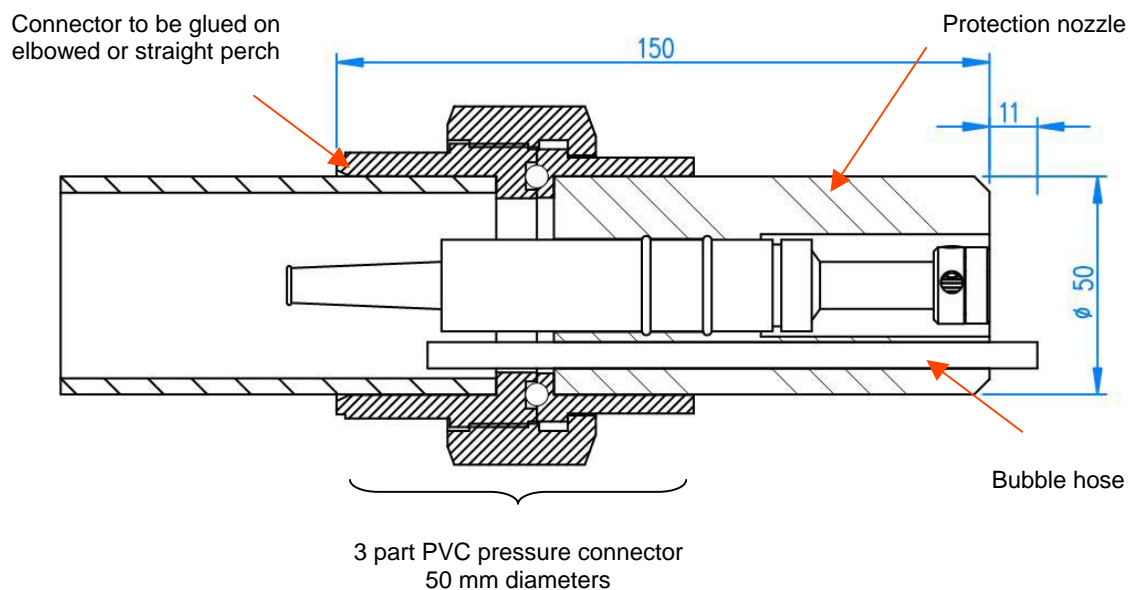
Nozzle for O2T sensor - not self-cleaning - (PONBUSE-O2)

The O2T sensor holding nozzle can be used with PONSEL elbowed or straight perches or adapted to your own perch.



Nozzle for O2T sensor – self-cleaning – (PONBUSE-O2-NET)

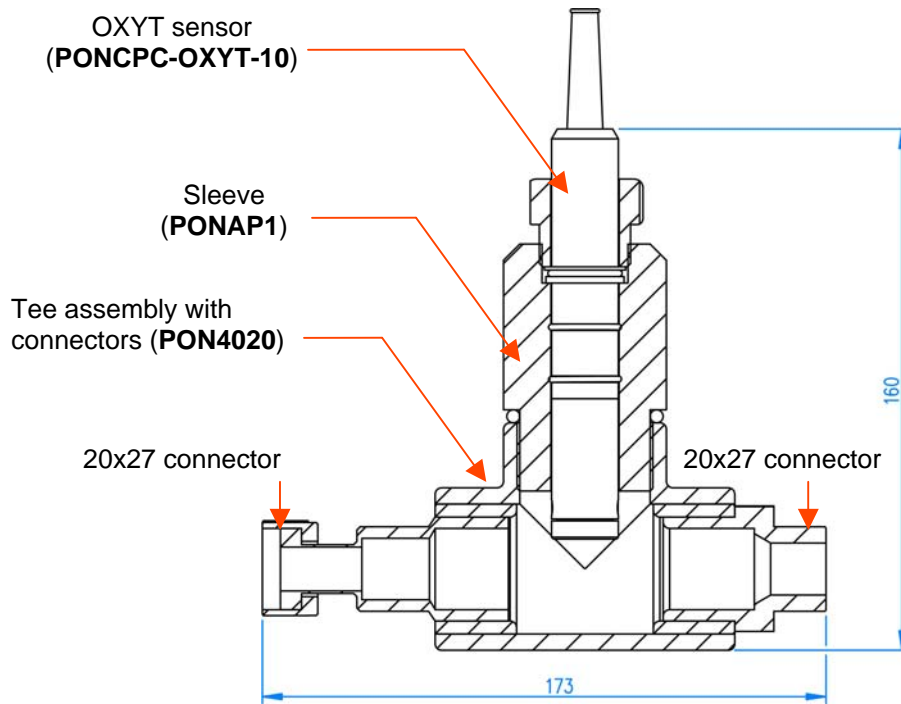
The O2T sensor holding nozzle can be used with PONSEL elbowed or straight perches or adapted to your own perch. A specially designed aperture in the nozzle can be used to fit a compressed air inlet near the membrane to ensure self-cleaning in fouling environments.



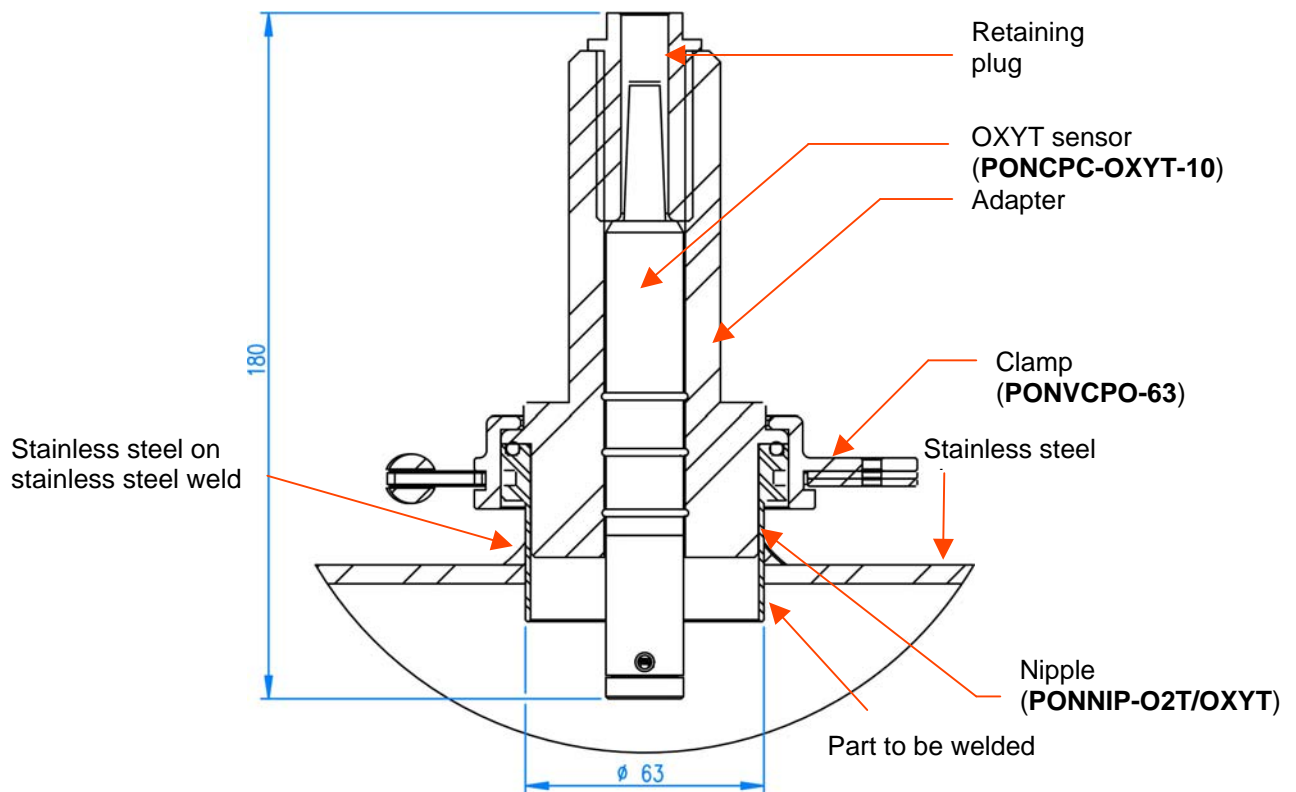
PIPE-MOUNTING ACCESSORIES

➤ OXYT sensor

PVC pipe-mounted OXYT sensor



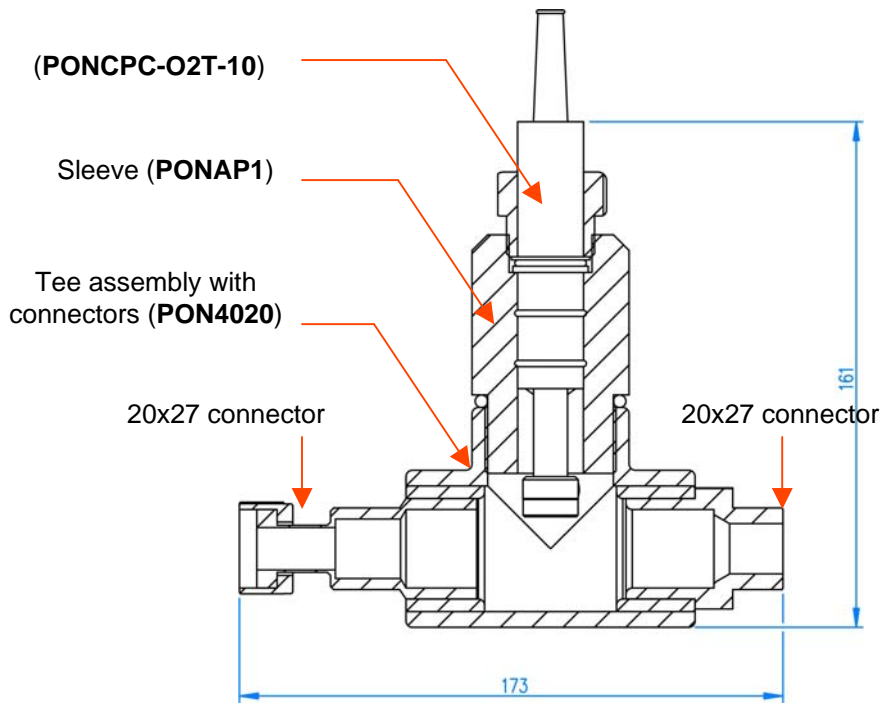
Stainless steel pipe-mounted OXYT sensor



PHYSICO-CHEMICAL TRANSMITTERS

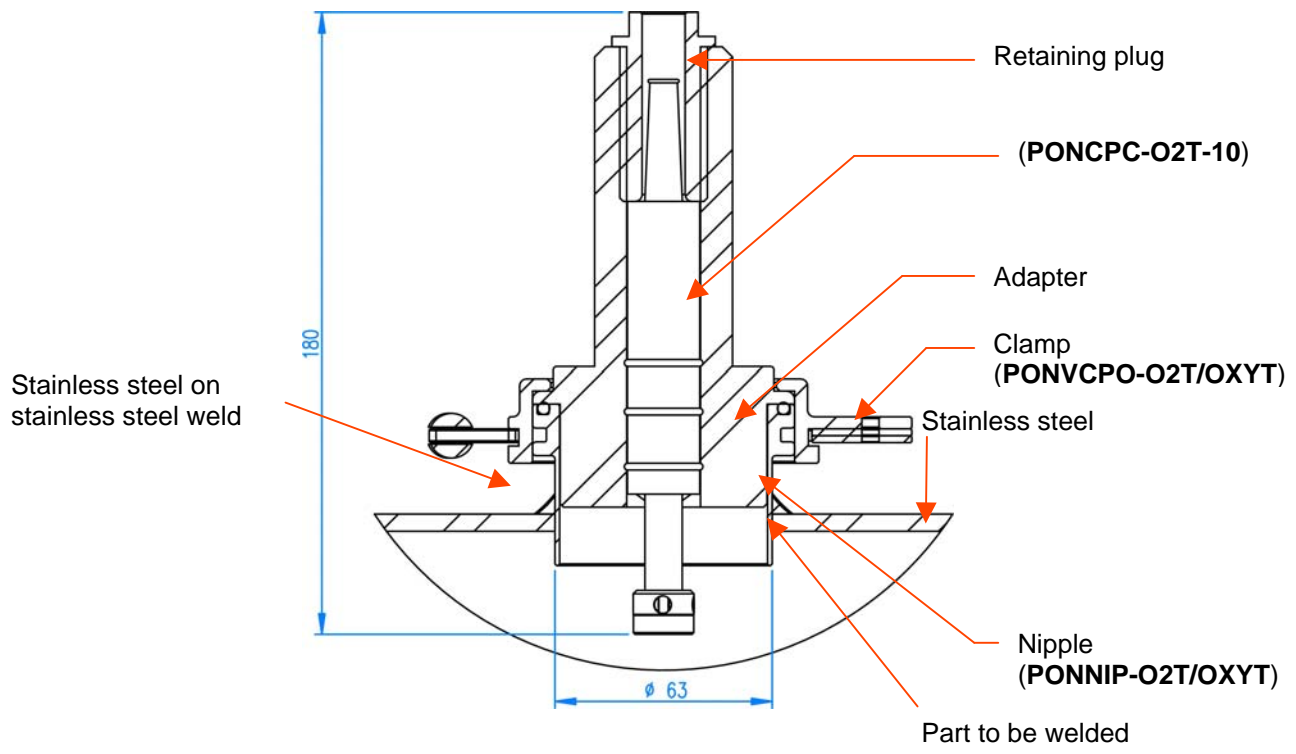
➤ **O2T sensor**

PVC pipe-mounted O2T sensor



PHYSICO-CHEMICAL TRANSMITTERS

Stainless steel pipe-mounted O2T sensor



ACTEON 2031 TRANSMITTER

Optical measurement technology

- Robust, watertight, easy to install,
- Optical measurement technology
- No consumables required (no membranes or caps),
- Single block sensor,
- Widescreen graphic display: instant measurements, trend line, relay state, calibration state,
- Fast and simple intuitive programming;
- 2 Sorties 4-20 mA, 2 Relais programmables.



PHYSICO-CHEMICAL / OPTICAL TRANSMITTERS

Fields of application

- Wastewater treatment (nitrification/denitrification monitoring in biological tanks),
- Drinking water (raw water control),
- Industrial effluent treatment (waste controls, etc.),
- Surface water monitoring,
- Fish farming, etc.

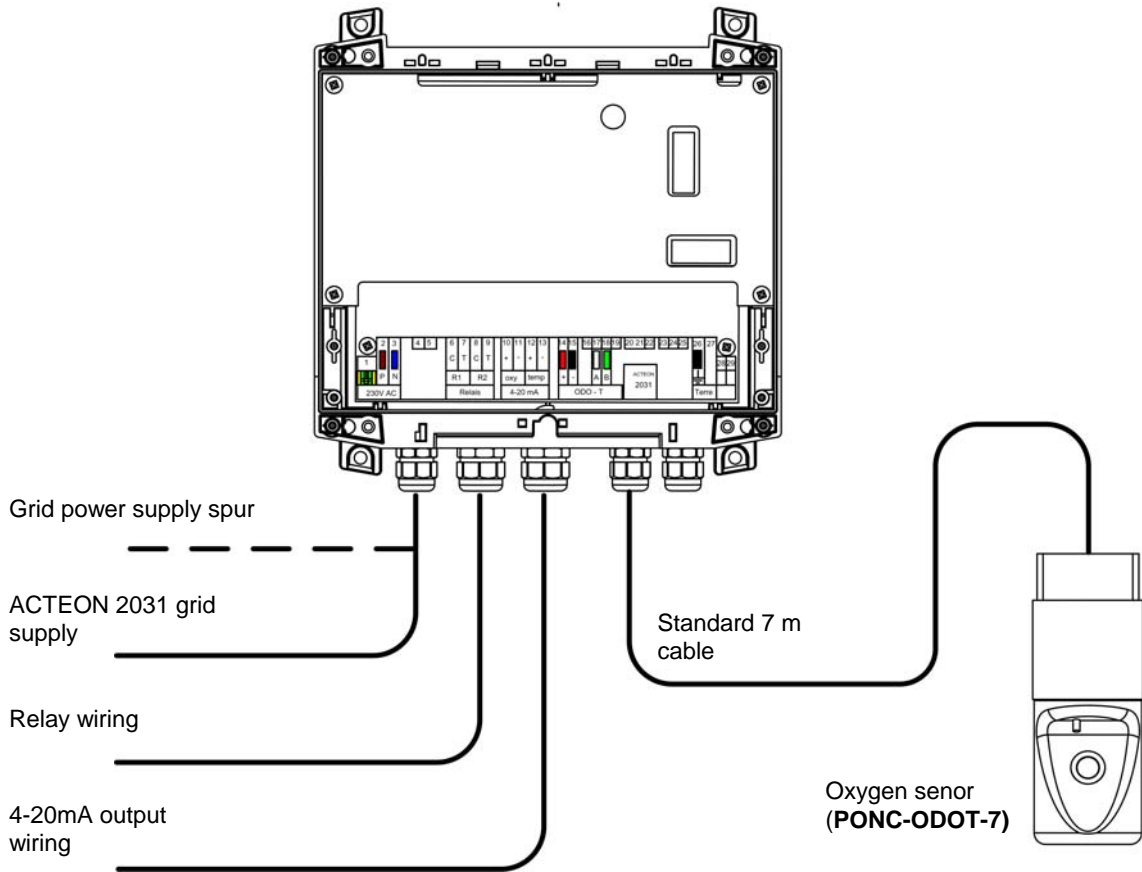
Advantages

- Widescreen graphic display for up to 24h data graphs,
- Six menus for intuitive programming,
- No calibration,
- 2 x 4-20 mA outputs (Oxygen and temperature), 2 relay outputs (with several programming modes).

Technical specifications

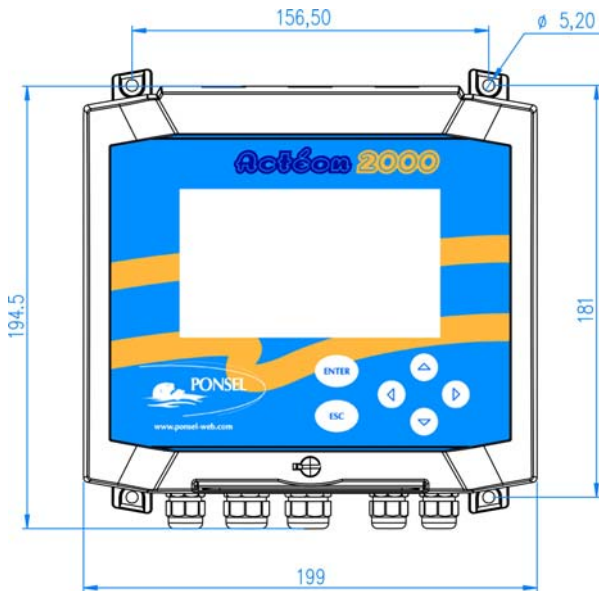
Oxygen measurement range	0.00 to 25,00 mg/l or 0.0 to 200.0%
Oxygen measurement accuracy	1 %
Repeatability	0.01 mg/l
Long term drift	<1% per year
Response time	95% under 60 sec.
Temperature measurement range	0 to + 60 °C
Measurement accuracy (T°C)	± 0.1°C
Casing	ABS
Protection	IP 65
Operating temperature range	-25°C to +55°C
Dimensions (L x W x D) /Weight	173 x 195 x 103mm / 1.5kg
Display	Widescreen back-lit graphic display: 240 x 128 pixels (108 x 58mm)
Power supply	230/115VAC 60Hz, Optional: 24Vdc
Max power consumption	10VA
4-20mA outputs	2 galvanic isolation outputs (max load 700 Ohms): - Adjustable from 0.00 to 20,00 mg/L or from 0.0 to 200.0 %/L- Adjustable from 0 to + 60 °C
Relay outputs	2 relays, configurable in 3 different modes: - Adjustment in alarm mode (1 O ₂ and 1 temperature (°C) threshold) - Adjustment in regulation mode (two O ₂ thresholds with two relays) - Adjustment on 1 High threshold/Low threshold relay, forced Start-up/Shutdown

Overview

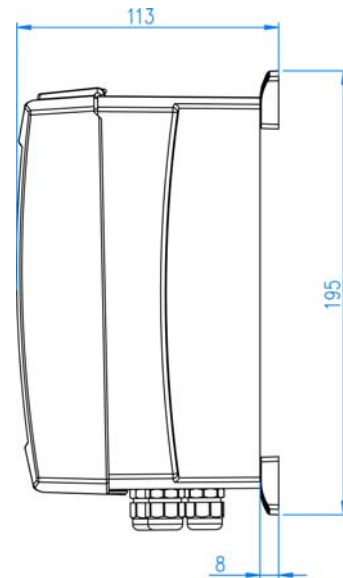


PHYSICO-CHEMICAL / OPTICAL TRANSMITTERS

Dimensions

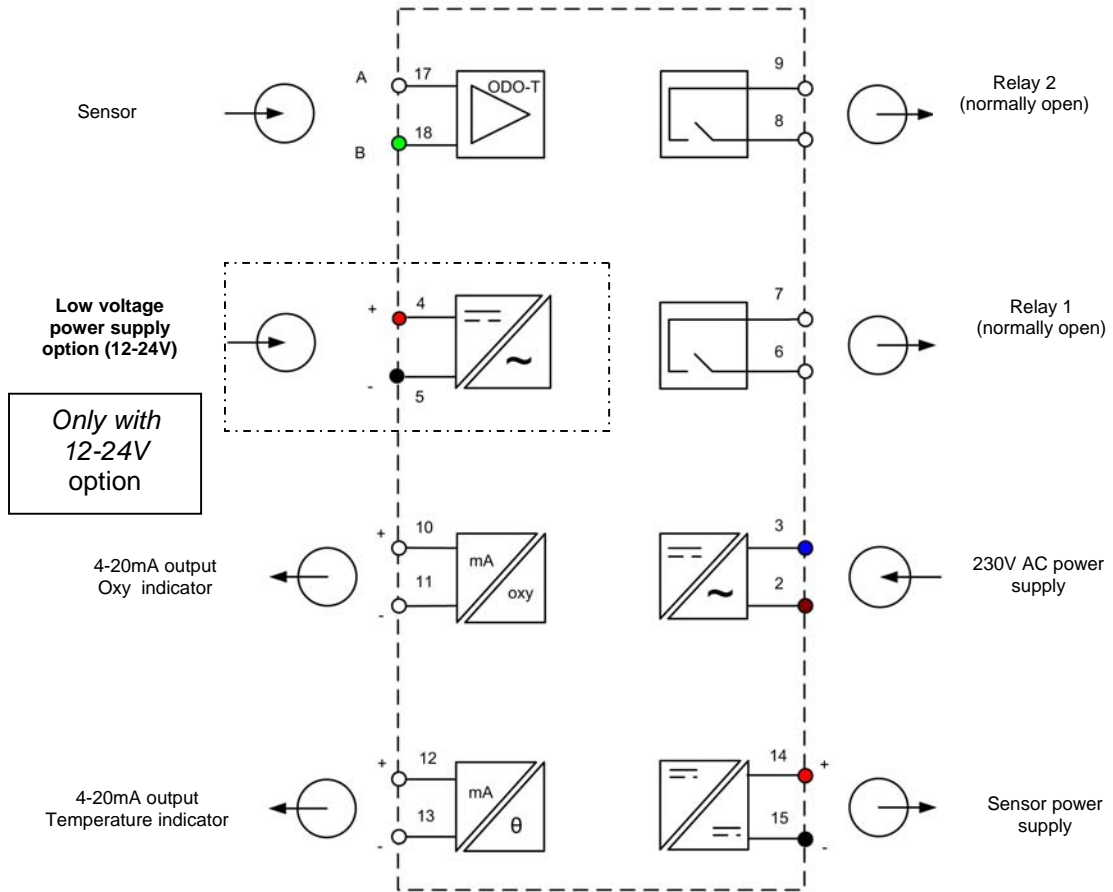


ACTEON 2000 Front view



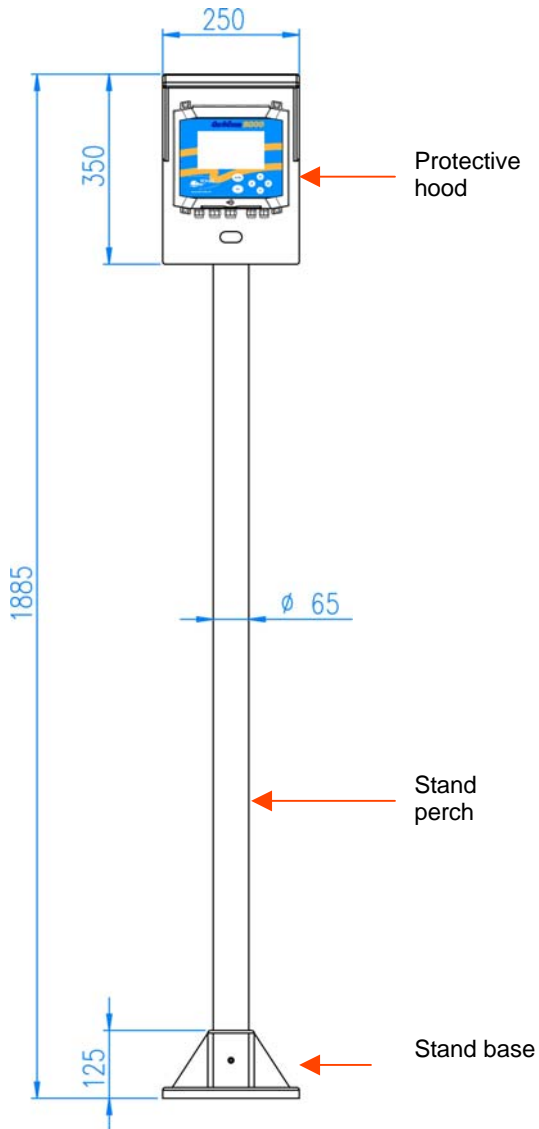
ACTEON 2000 Side view

Electrical connections



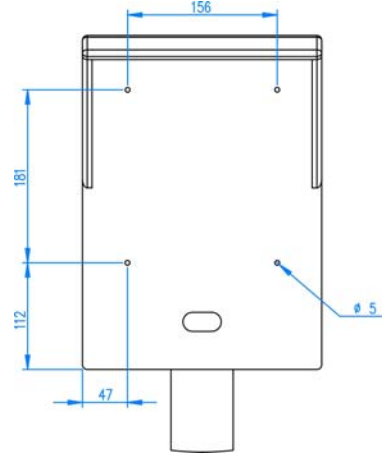
ACTEON 2031 MOUNTING ACCESSORIES

Stand and protective hood: PON-PDPVC-1

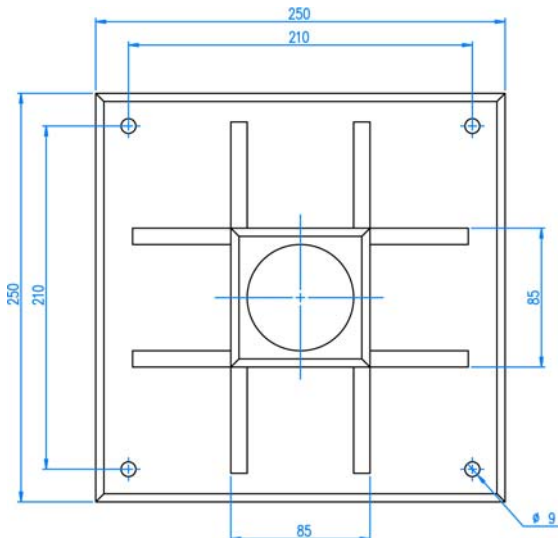
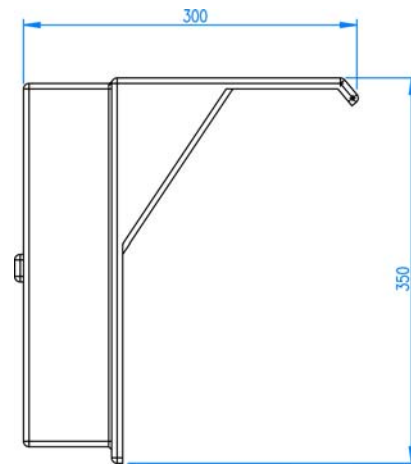


Stand hood - Front view

The ACTEON sensor is secured to the hood with 4 M5 type screws.



Stand hood - Side view



Ground fixing stand base

Fix the stand base onto a flat surface with 4 screws (under M9 diameter)

OXYGEN SENSOR: PONC-ODOT-7

The ODOT sensor is a single block optical sensor based on the fluorescence measurement principle. No consumables required. (No membrane replacement, no electrolyte, no cap replacements).

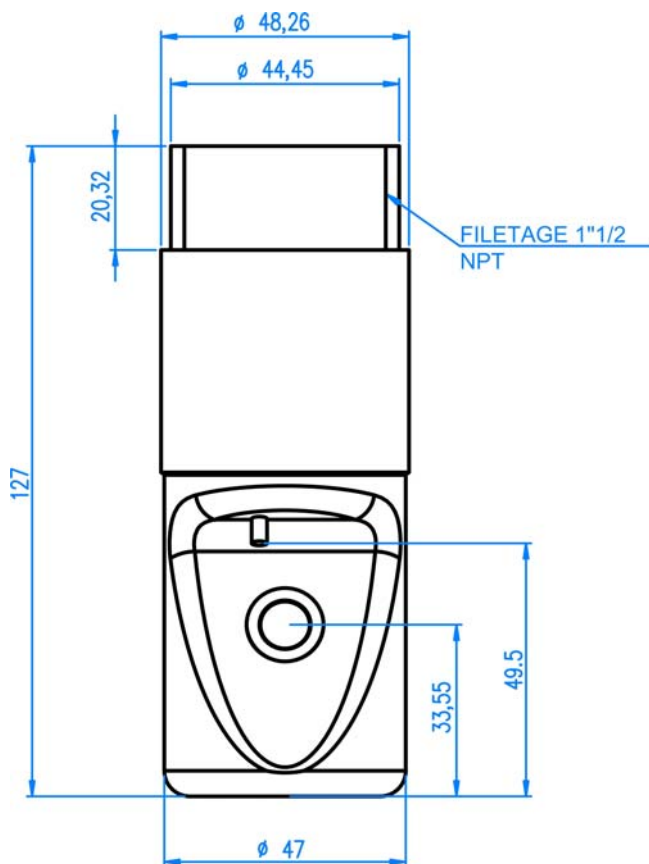
This sensor is ideally suited for process regulation applications and requires no maintenance.



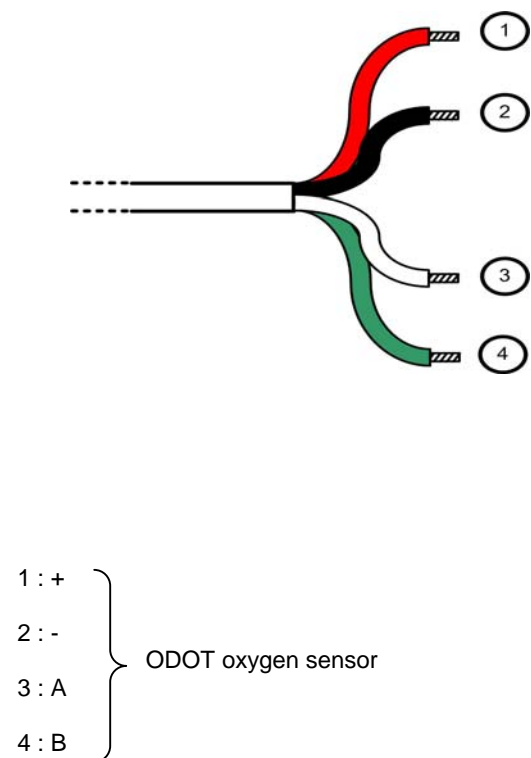
Technical specifications

Measurement principle	Fluorescence-based optical
Measurement ranges	0.00 to 25,00 mg/l or 0.0 to 200.0%
Material	Epoxy, polyurethane, Pt100 for temperature
Weight	460 g,
Protection	IP68
Cable	7m standard length (up to 100m optional)
Pressure	7 bars
Operating temperature	-20 to +70 °C

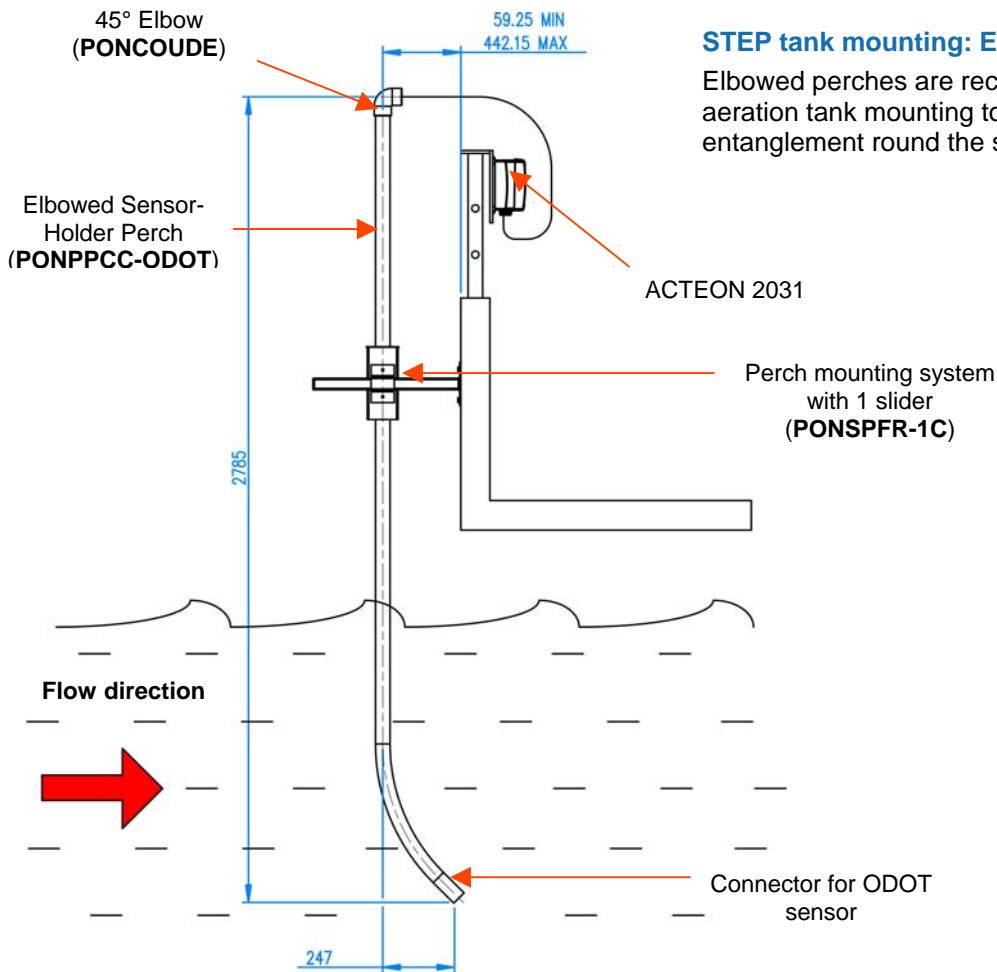
Dimensions



Electrical connection

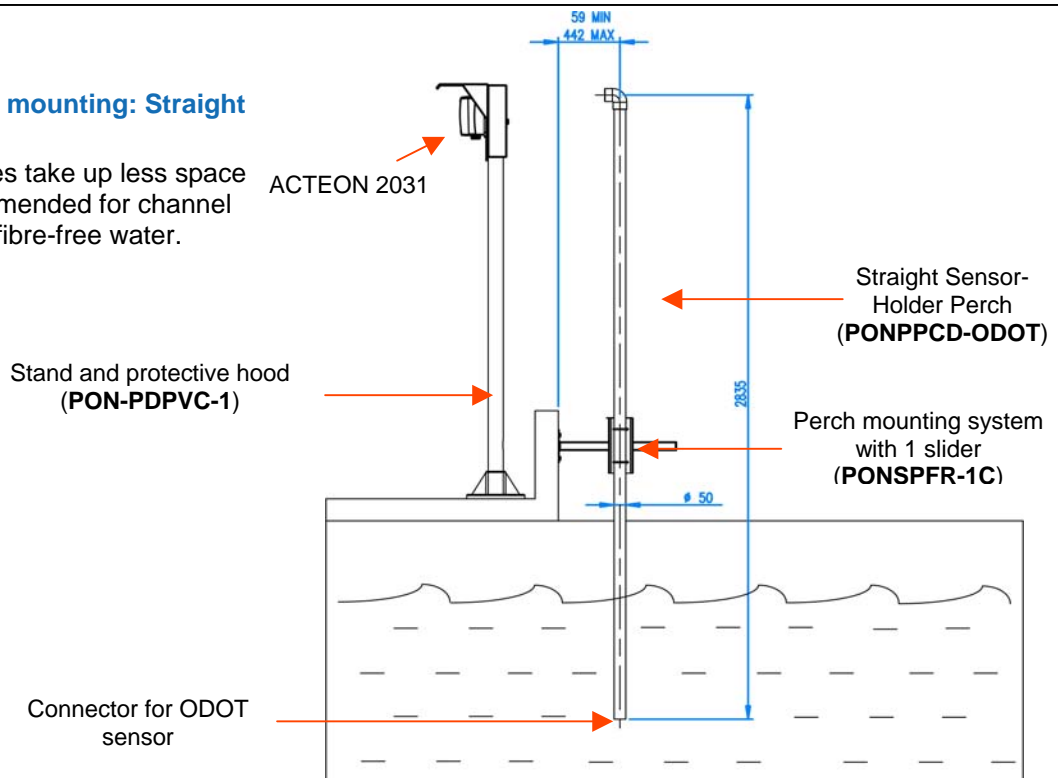


TANK AND OPEN CHANNEL MOUNTING ACCESSORIES



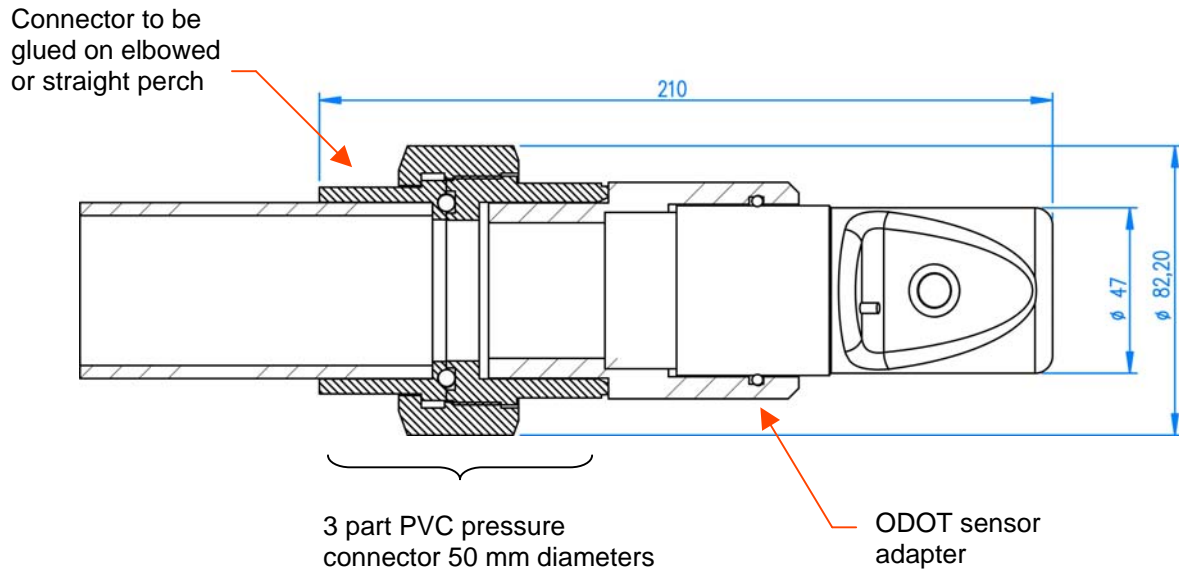
Open channel mounting: Straight perch

Straight perches take up less space and are recommended for channel mounting with fibre-free water.



PERCH MOUNTING

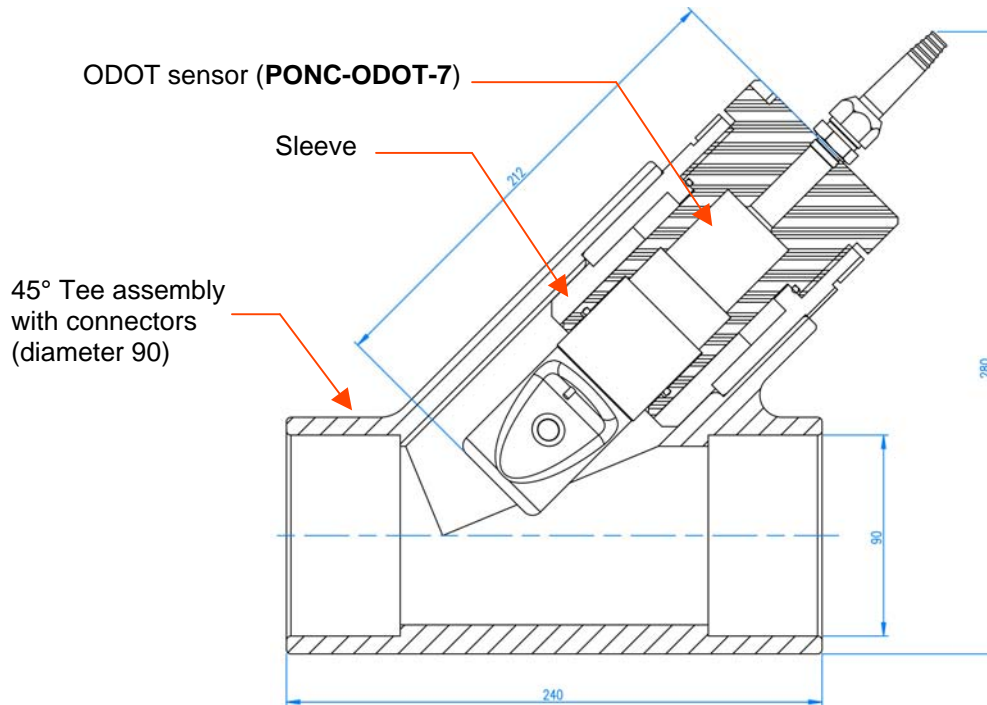
Adapter/Connector for perch mounted sensor (PONBUSE-ODOT)



PHYSICO-CHEMICAL / OPTICAL TRANSMITTERS

PIPE-MOUNTING ACCESSORIES

PVC pipe-mounted ODOT sensor: PON-T90-ODOT

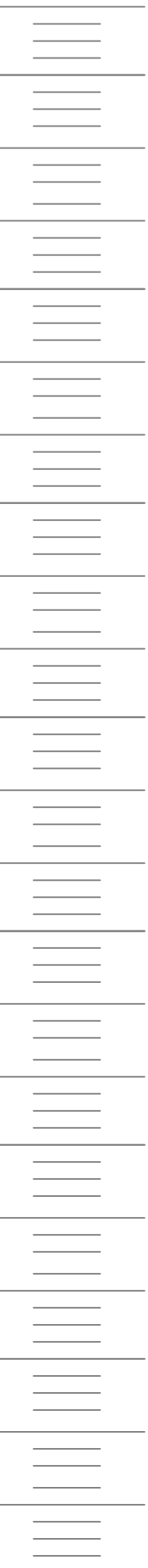


Stainless steel pipe-mounted ODOT sensor

Contact NEOTEK PONSEL for stainless-steel pipe mounting solutions.



01010-
01101



➤ CONDUCTIVITY/SALINITY MEASUREMENT

ACTEON 2040/2041 TRANSMITTER

Inductive sensor technology.

- Robust, watertight, easy to install,
- Widescreen graphic display: instant measurements, trend line, relay state, calibration state,
- Fast and simple intuitive programming,
- 4-20 mA outputs, 2 programmable relays.



PHYSICO-CHEMICAL TRANSMITTERS

Fields of application

- Wastewater treatment (input/output monitoring, etc.),
- Industrial effluent treatment (waste controls, etc.),
- Surface water monitoring,
- Coastal waters monitoring...

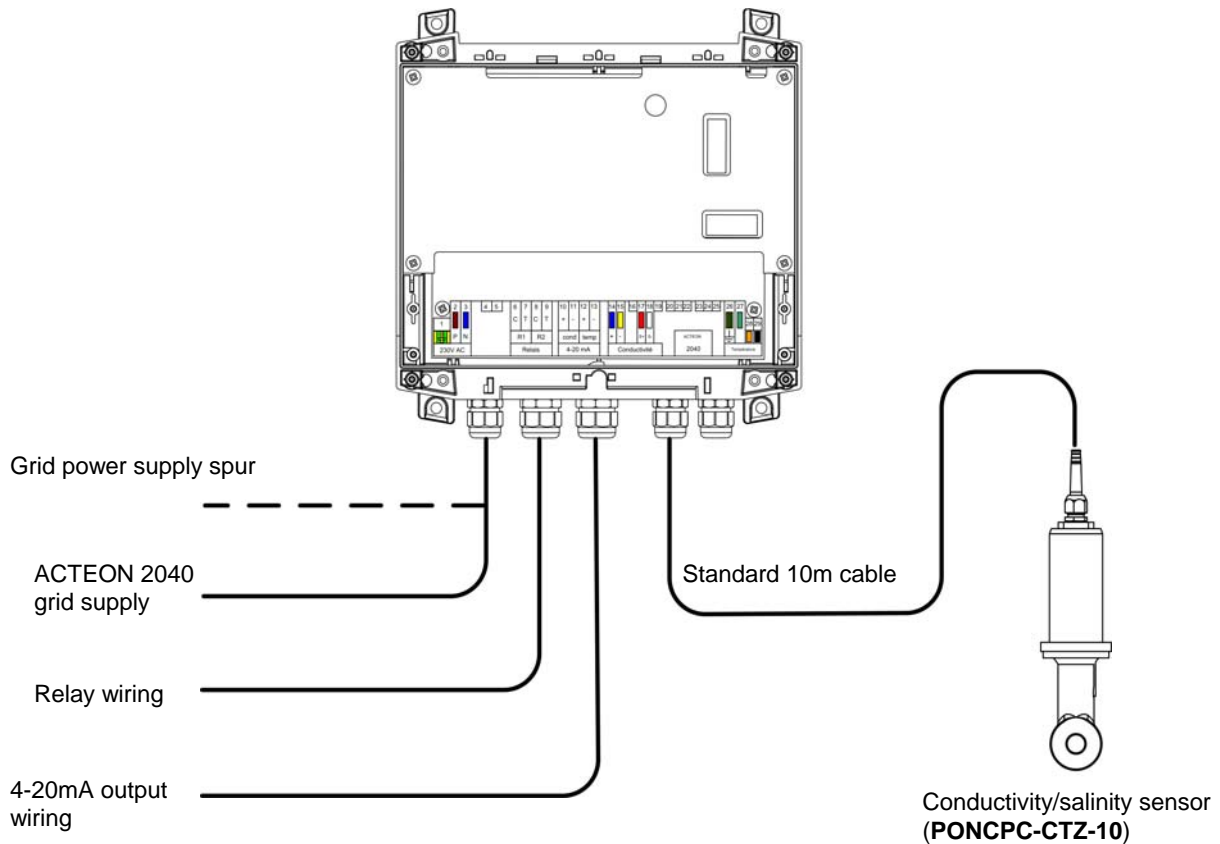
Advantages

- Widescreen graphic display for up to 24h data graphs,
- Six menus for intuitive programming,
- Guided 1 or 2 point calibration with plausibility checks,
- 2 x 4-20 mA outputs (Conductivity and temperature), 2 relay outputs (with several programming modes).

Technical specifications

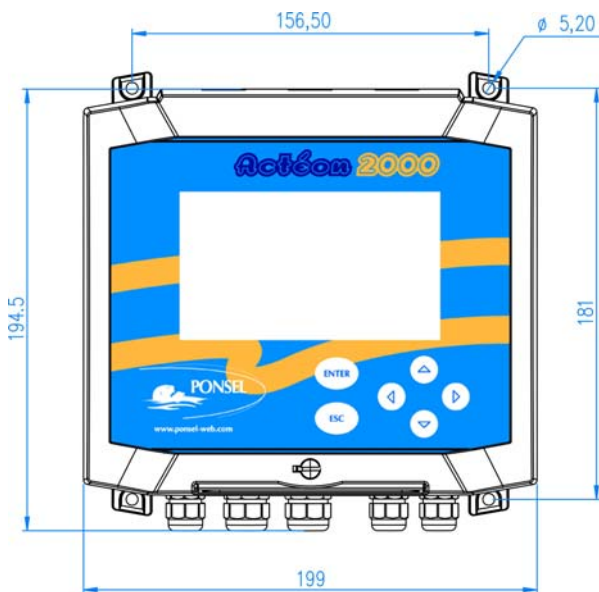
Conductivity measurement range	0-2 000 μ S/cm; 0,00-20,00 mS/cm; 0,0-100,0 mS/cm
Salinity measurement range	0.00-20.00 or 0.00-70.00 g/Kg
Measurement accuracy	\pm 0.5% of displayed value
Temperature measurement range	-10 to +50 °C
Measurement accuracy (T°C)	\pm 0.1 °C
Casing	ABS
Protection	IP 65
Operating temperature range	-25°C to +55°C
Dimensions (L x W x D) /Weight	173 x 195 x 103mm / 1.5kg
Display	Widescreen back-lit graphic display: 240 x 128 pixels (108 x 58mm)
Power supply	230/115VAC 60Hz, Optional: 24Vdc
Max power consumption	10VA
4-20mA outputs	2 galvanic isolation outputs (max load 700 Ohms): - Adjustable on the conductivity/salinity ranges - Adjustable from -10 to +50 °C.
Relay outputs	2 relays, configurable in 2 different modes: - Adjustment in alarm mode (1 conductivity/salinity and 1 temperature (°C) threshold) - Adjustment in regulation mode (2 conductivity/salinity thresholds);

Overview

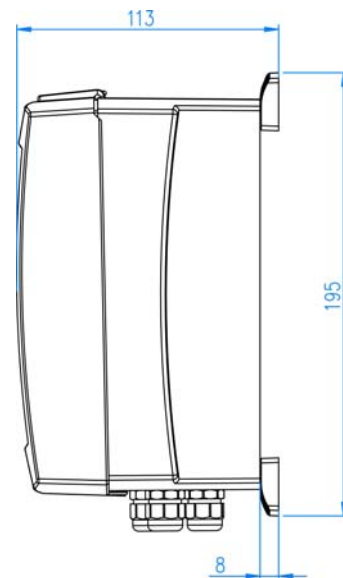


PHYSICO-CHEMICAL TRANSMITTERS

Dimensions

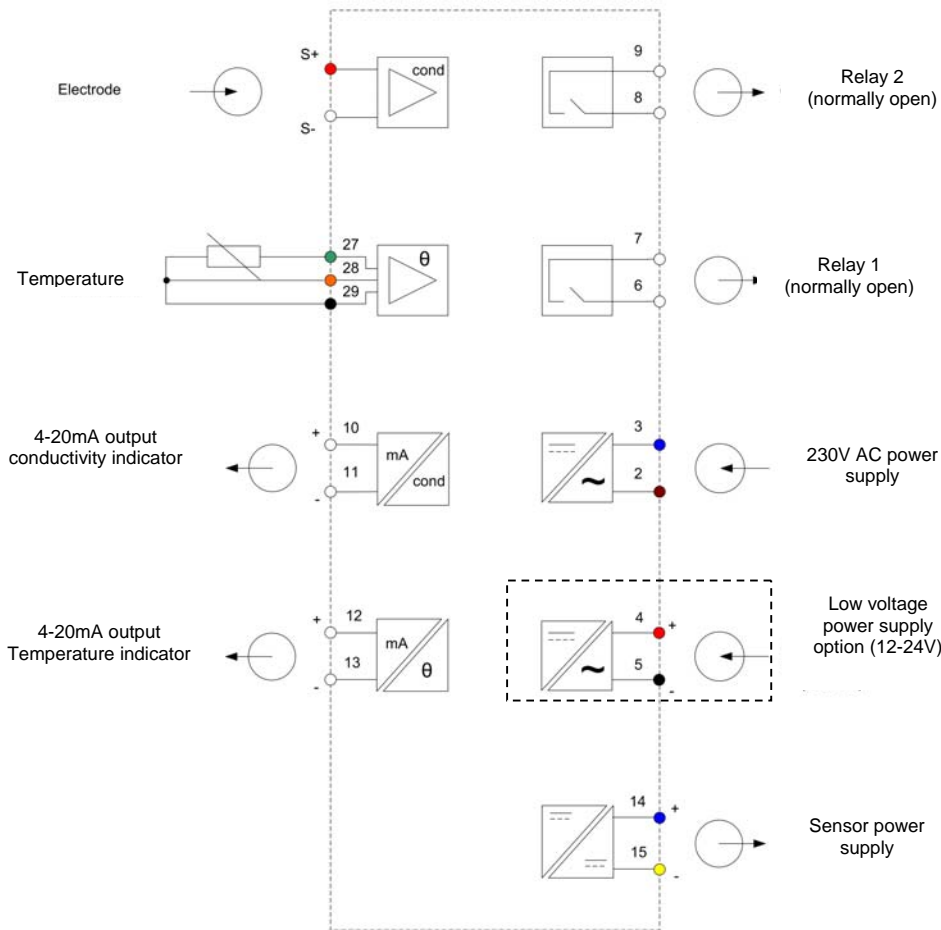


ACTEON 2000 Front view



ACTEON 2000 Side view

Electrical connections

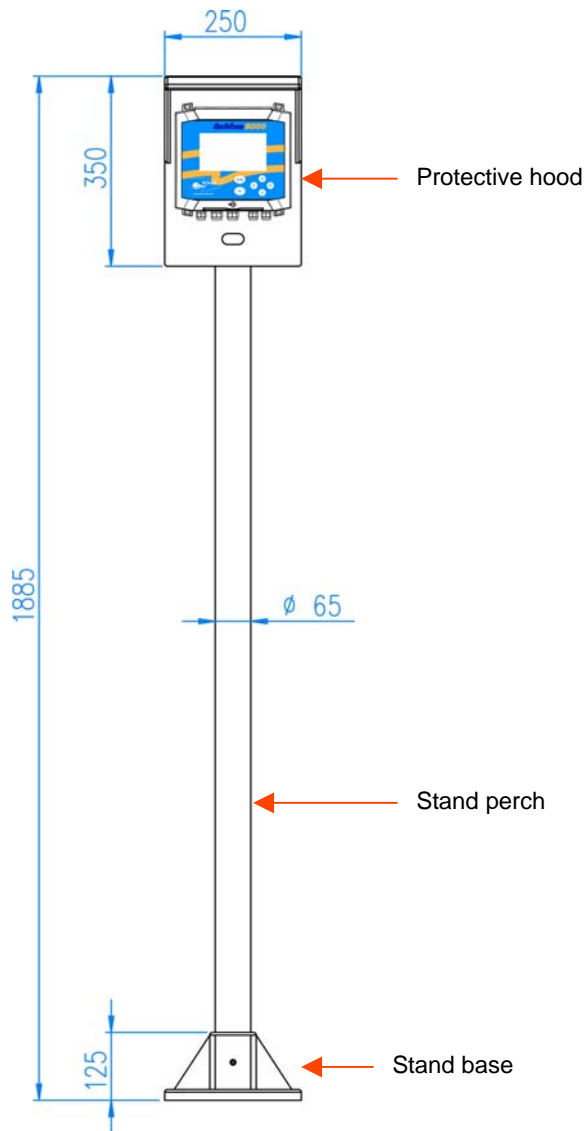


Only with
12-24V
option

PHYSICO-CHEMICAL TRANSMITTERS

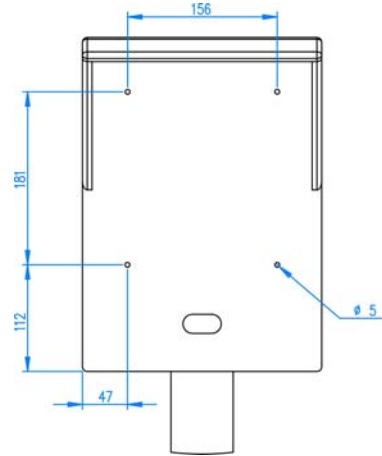
ACTEON 2040/2041 MOUNTING ACCESSORIES

Stand and protective hood: PON-PDPVC-1

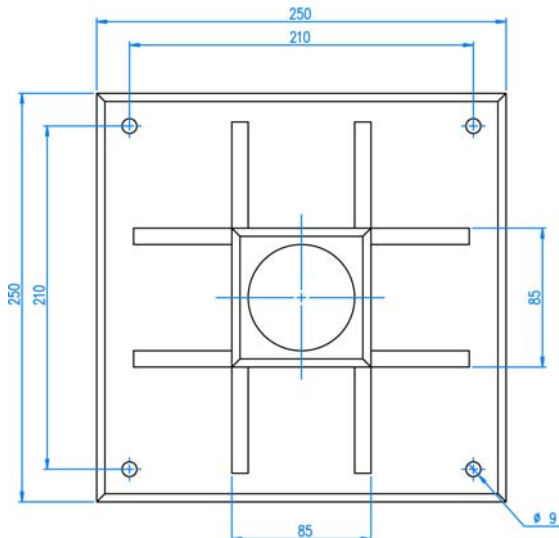
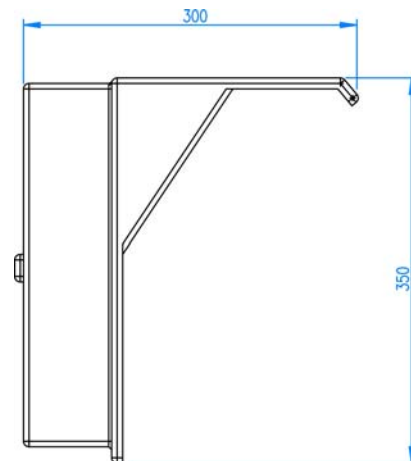


Stand hood - Front view

The ACTEON sensor is secured to the hood with 4 M5 type screws.



Stand hood - Side view



Ground fixing stand base

Fix the stand base onto a flat surface with 4 screws (under M9 diameter)

PHYSICO-CHEMICAL TRANSMITTERS

CONDUCTIVITY SENSOR: PONCPC-CTZ-10

The induction-based conductivity sensor is used in wastewater treatment systems (pollution monitoring), sewage plant inlets, stormwater ponds, etc.

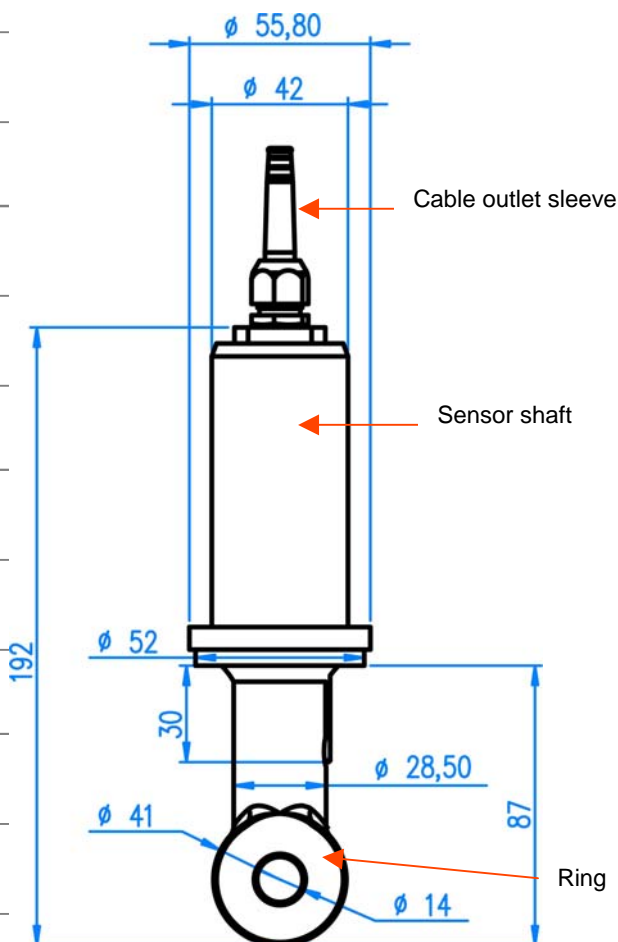
A ring-type coil is excited at fixed intervals and the response is retrieved on a second coil, which is linked to the excited coil. The connectivity between the coils (determined by the degree of conductivity) takes place via the conducting solution.



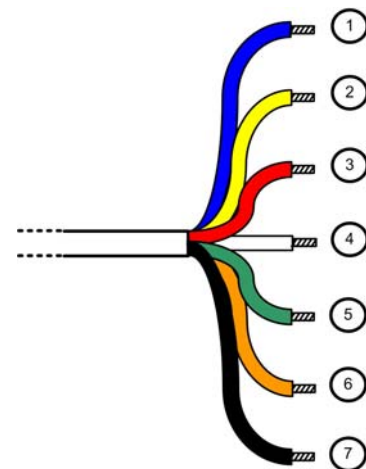
Technical specifications

Measurement principle	Induction sensor, temperature regulated (T°C)
Conductivity measurement range	0-2 000 µS/cm; 0.00-20.00 mS/cm; 0.0-100.0 mS/cm
Salinity measurement range	0.00-20.00 or 0.00-70.00 g/Kg
Material	DELRIN, Pt 100 for temperature
Weight	700 g
Protection	IP68
Cable	10m standard length (other lengths on request)
Pressure	5 bars
Operating temperature	-10 - +60°C

Dimensions

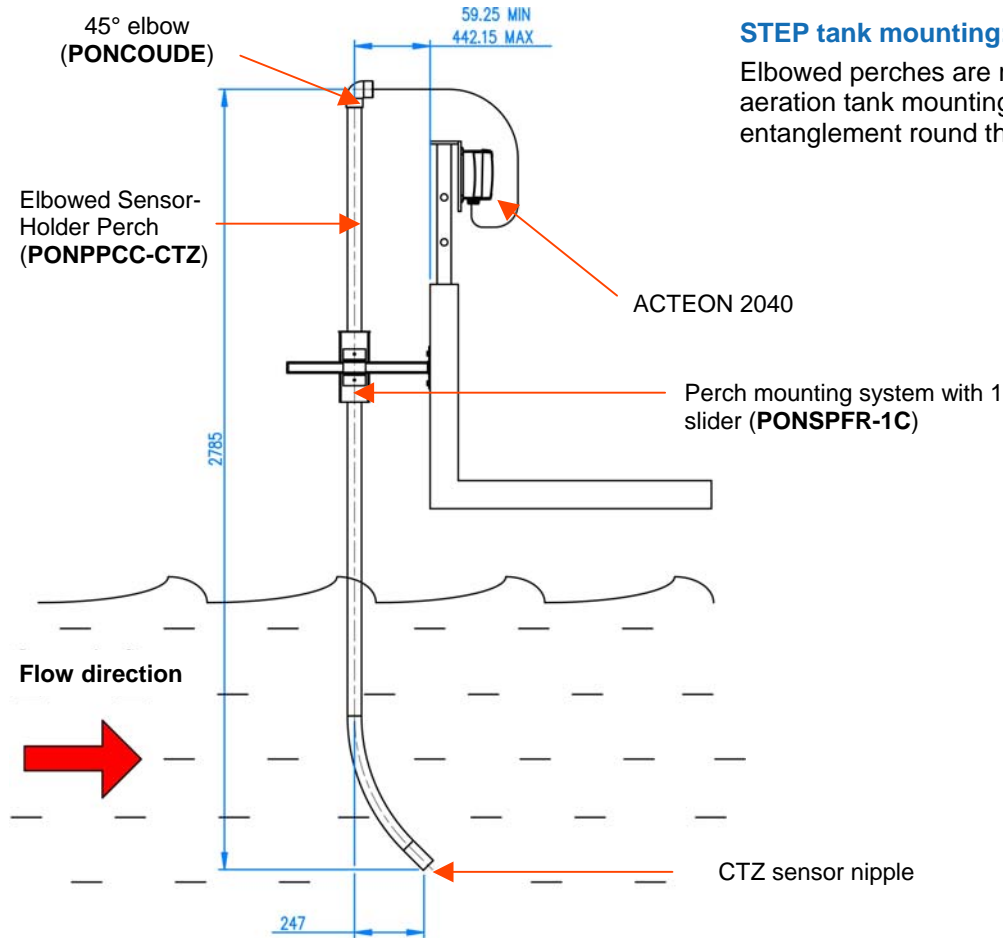


Electrical connection



- 1 : +
- 2 : -
- 3 : S+
- 4 : S-
- 5 : (+) Pt 100
- 6 : (-) Pt 100
- 7 : (-) Pt 100 compensation
(For long cable lengths)

TANK AND OPEN CHANNEL MOUNTING ACCESSORIES

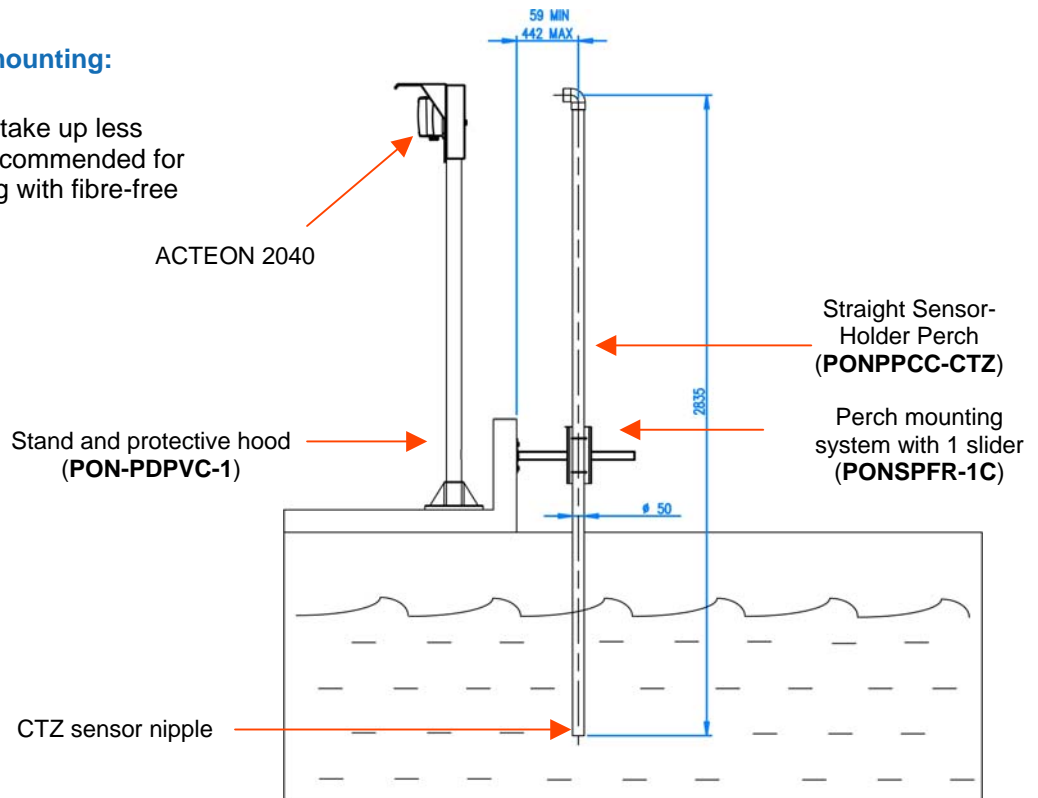


STEP tank mounting: Elbowed perch

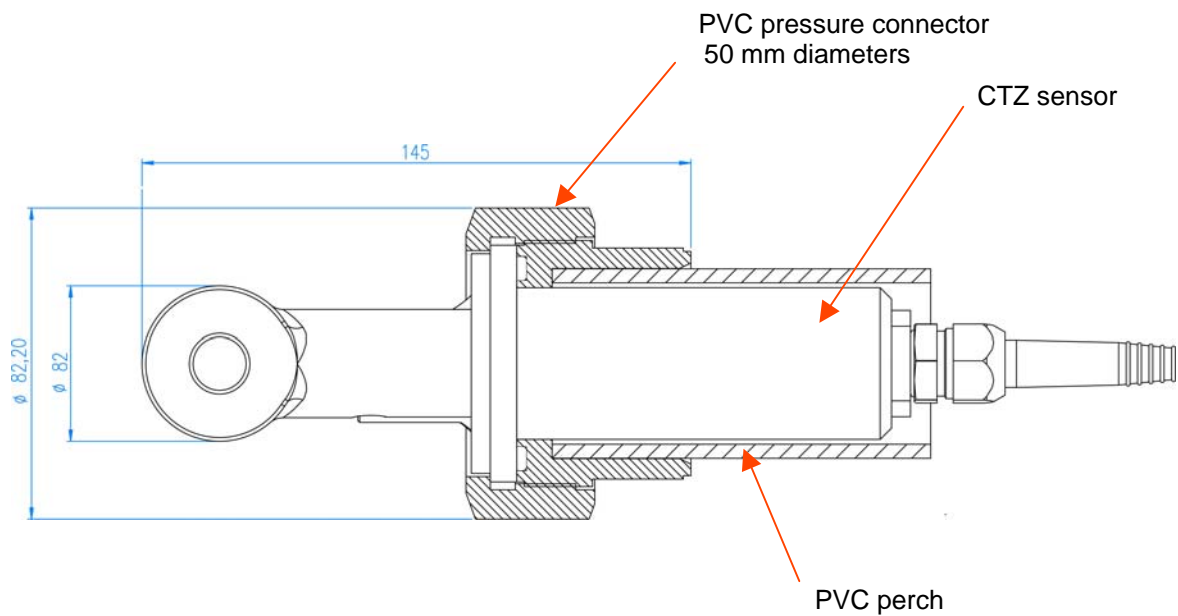
Elbowed perches are recommended for aeration tank mounting to prevent fibre entanglement round the sensor.

Open channel mounting: Straight perch

Straight perches take up less space and are recommended for channel mounting with fibre-free water.



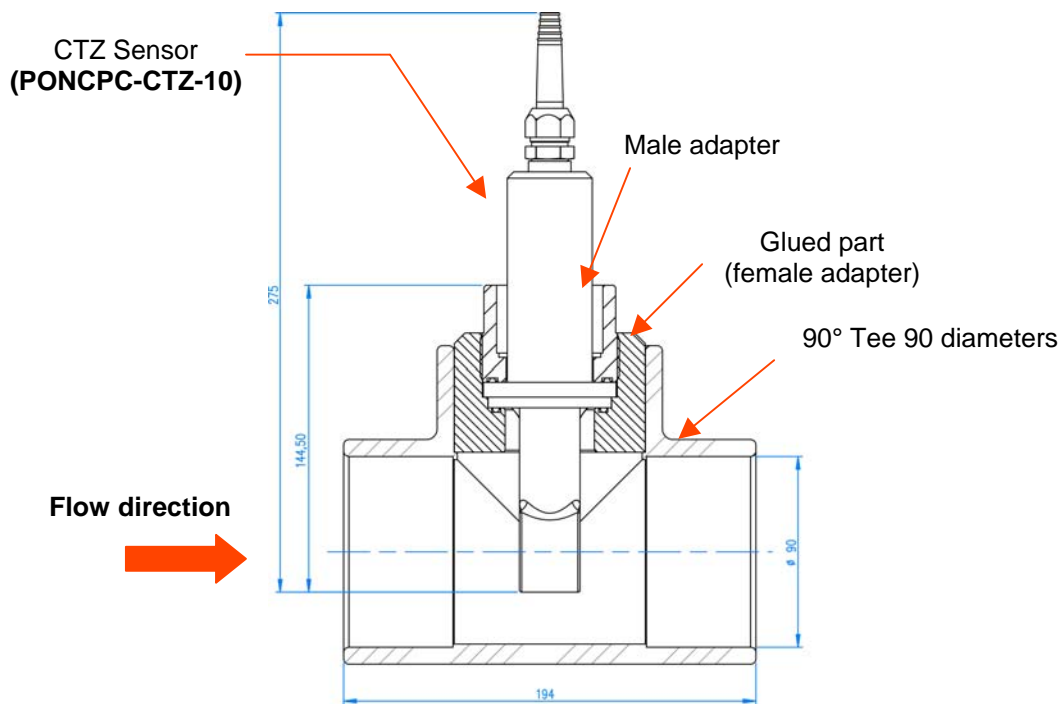
PERCH MOUNTING



PHYSICO-CHEMICAL TRANSMITTERS

PIPE-MOUNTING ACCESSORIES

PVC pipe-mounted CTZ sensor (Tee assembly PON-T90-CTZ)



PHYSICO-CHEMICAL TRANSMITTERS

Stainless steel pipe-mounted CTZ sensor

