

➤ pH and TEMPERATURE MEASUREMENT

ACTEON 2010 TRANSMITTER

- 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 controls, aeration and anoxic tanks, odour control unit),
- Industrial effluent treatment (waste controls; neutralisation),
- Drinking water (raw water control, water treatment, output control),
- Surface water monitoring, etc.

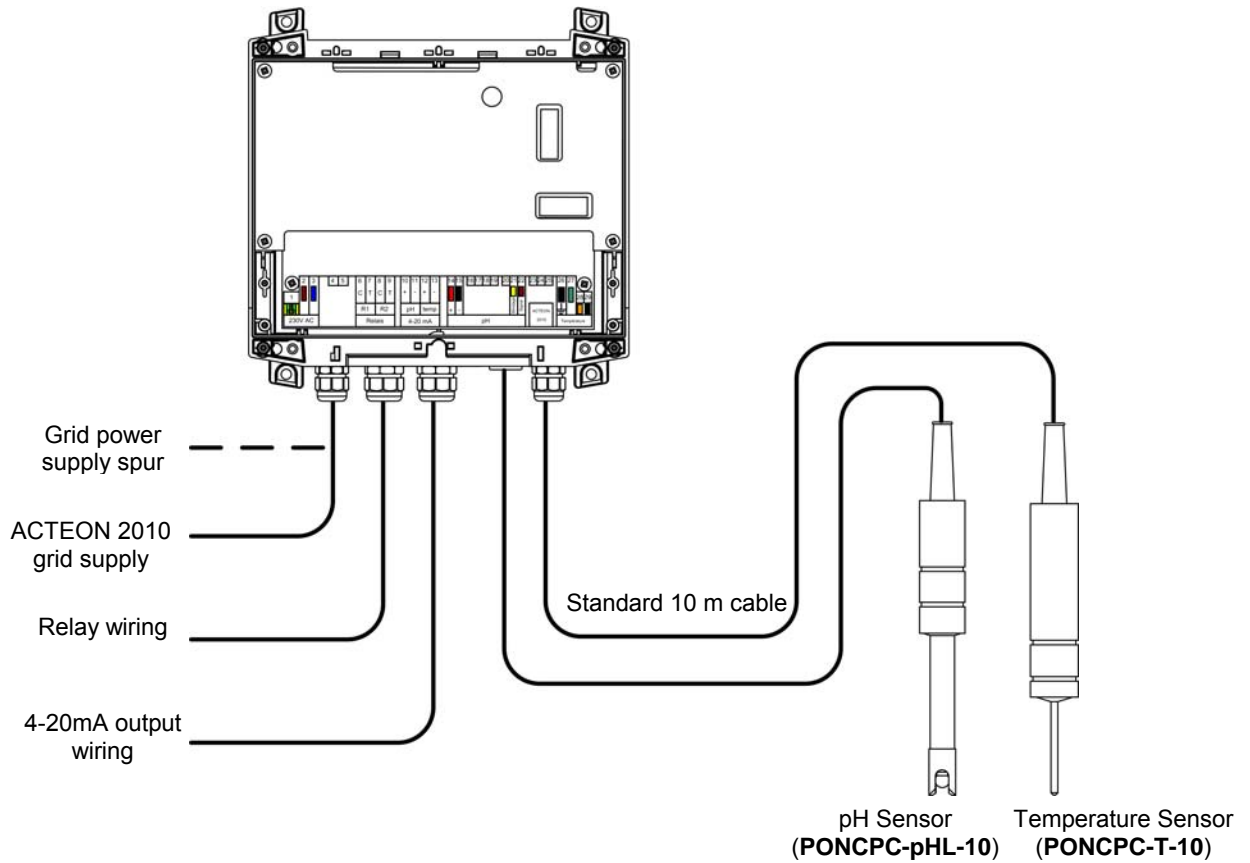
Advantages

- 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 (pH and temperature), 2 relay outputs (with several programming modes).

Technical specifications

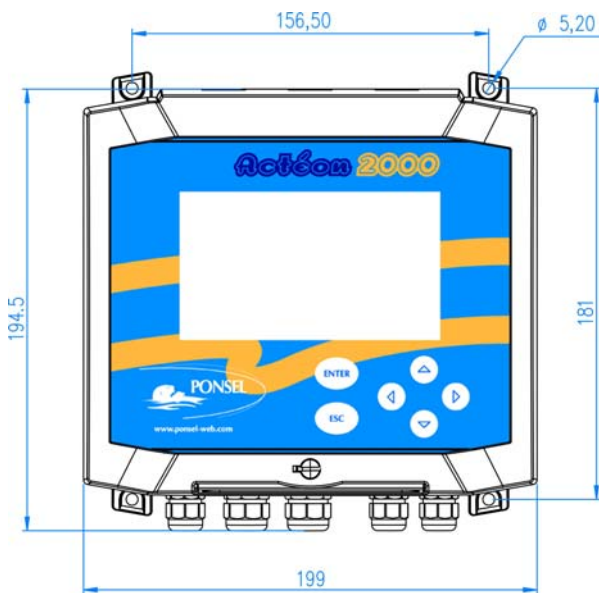
| | |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PH measurement range (temperature compensated) | 0.00 to 14.00pH |
| pH measurement accuracy | ± 0.1 pH |
| Temperature measurement range | -10 to +50 °C |
| Temperature measurement accuracy (°C) | ±0.1°C |
| Casing: | ABS |
| Environmental rating | 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 14.00pH - Adjustable from -10 °C to +50 °C |
| Relay outputs | 2 relays, configurable in 2 different modes: Adjustment in alarm mode (1 pH and 1 temperature (°C) threshold); Adjustment in regulation mode (two pH thresholds with two relays) |

Overview

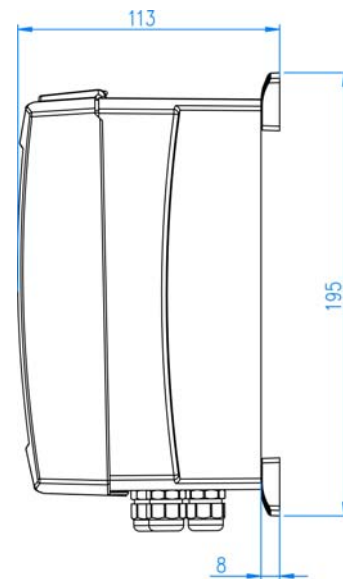


PHYSICO-CHEMICAL TRANSMITTERS

Dimensions

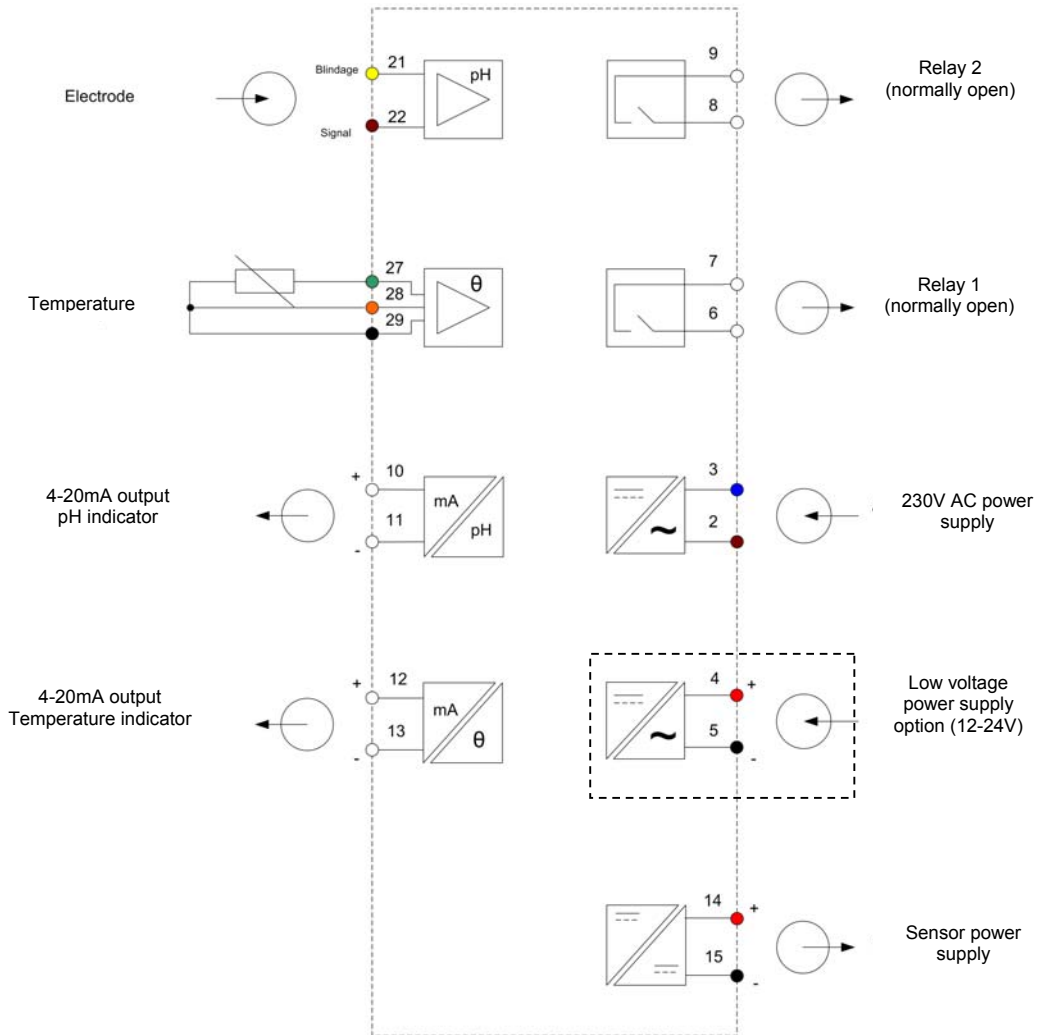


ACTEON 2000 Front view



ACTEON 2000 Side view

Electrical connections

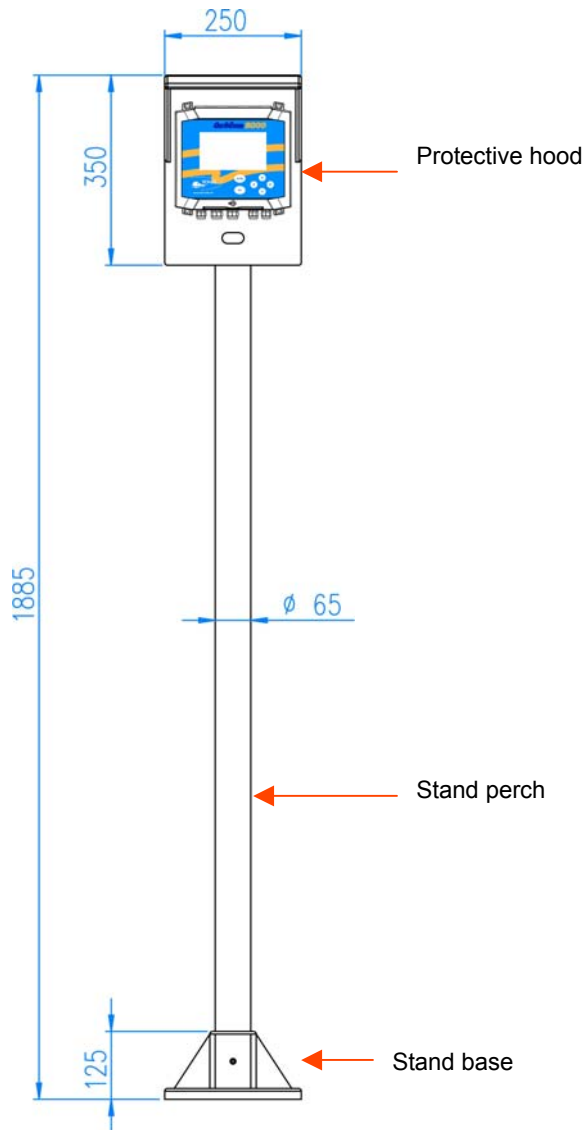


**Only with
12-24V
option**

PHYSICO-CHEMICAL TRANSMITTERS

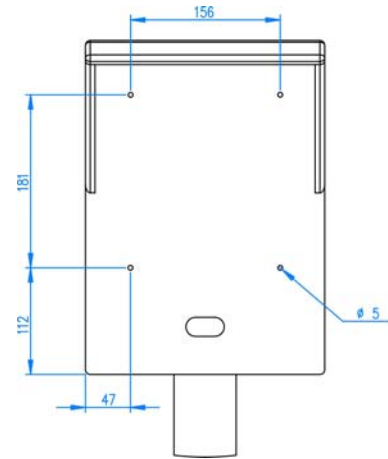
ACTEON 2010 MOUNTING ACCESSORIES

Stand and protective hood: PON-PDPVC-1

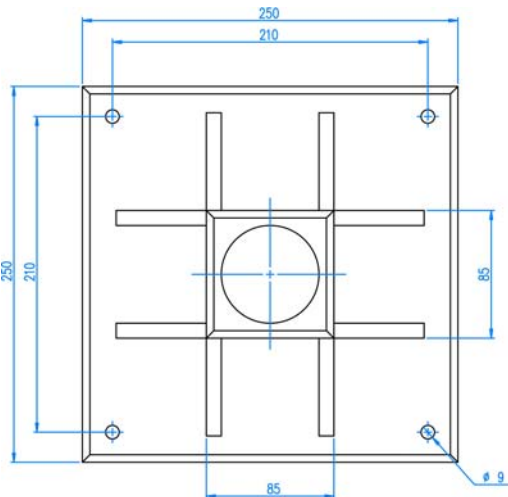
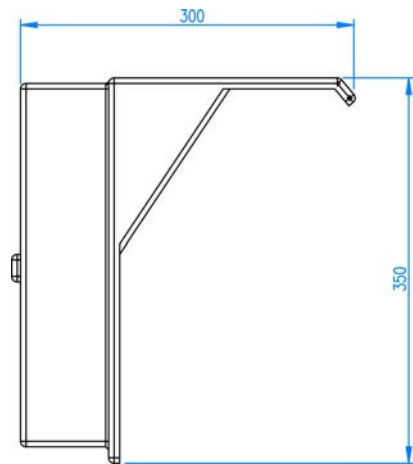


Stand hood - Front view:

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

pH SENSOR: PONCPC-pHL-10

The combined pH/Reference sensor is widely used in water treatment processes (domestic waste water and industrial effluent), and in odor control and neutralisation systems, etc.

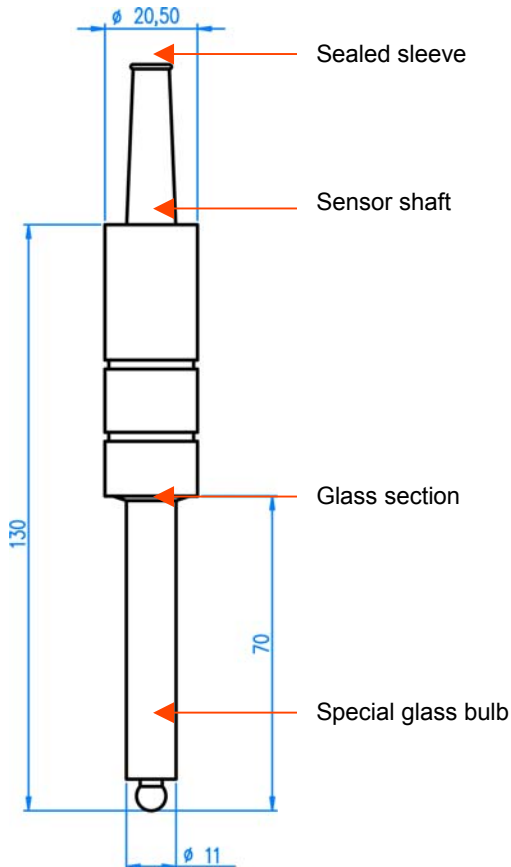
The reference uses a KCl gel for optimum measurement stability and durability.



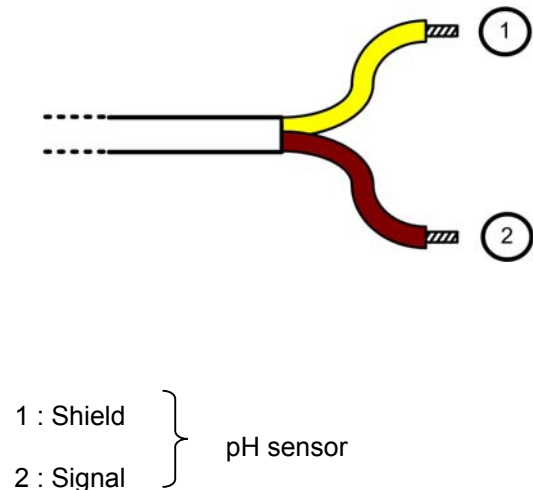
Technical specifications

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Measurement principle | pH/Reference combined electrode: pH: Special glass electrode, Reference: Ag/AgCl gelled electrolyte (KCl) |
| Measurement range | 0.00-14.00pH |
| Material | Delrin, glass, special glass |
| Weight | 440 g, |
| Waterproof rating | IP68 |
| Cable | Shielded coaxial, 10m standard length (other lengths on request) |
| Operating temperature | 0 - 60°C when submerged |
| Pressure | 5 bars |

Dimensions



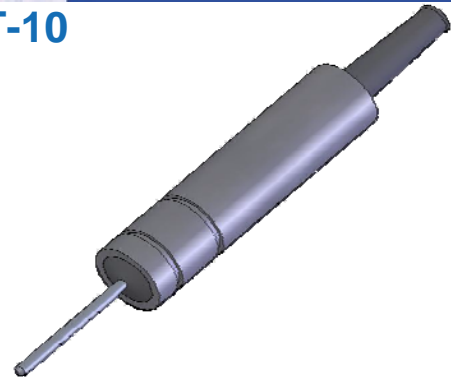
Electrical connection



TEMPERATURE SENSOR: PONCPC-T-10

The PONSEL temperature sensor is generally used in conjunction with a pH sensor in order to compensate pH measurements for temperature.

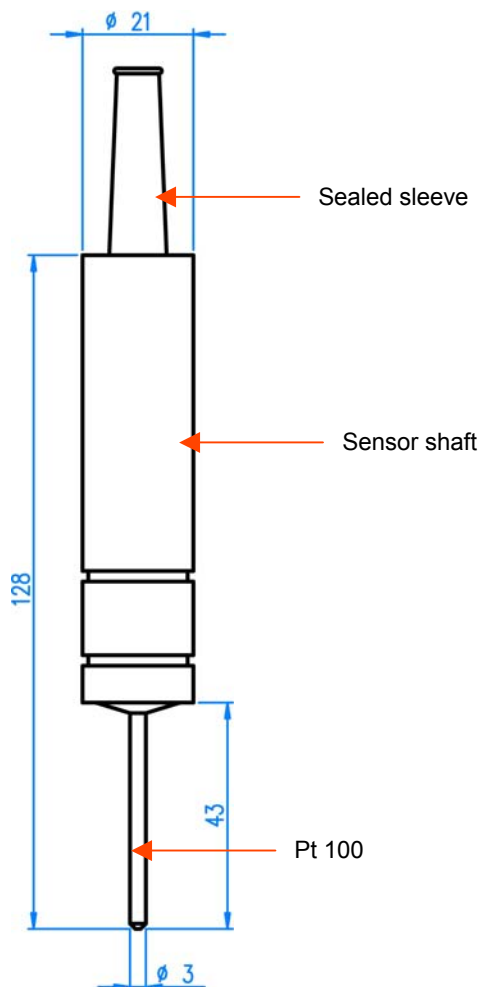
The sensor uses a Pt 100 Ω resistance in a Delrin shaft, with a standard 10m cable length.



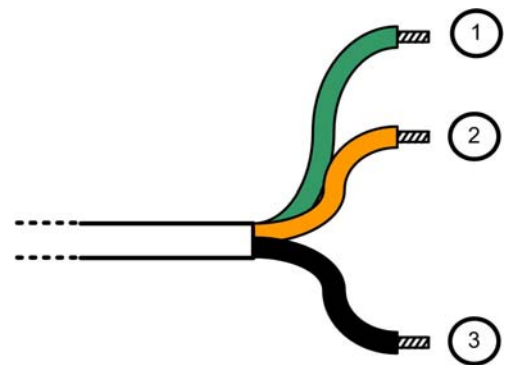
Technical specifications

| | |
|------------------------------|---------------------------------------------------------|
| Measurement principle | Platinum, type Pt 100 Ω |
| Measurement range | -10,00 to +100,00°C |
| Material | Delrin, Pt100, |
| Weight | 100 g, |
| Waterproof rating | IP68 |
| Cable | Coaxial, 10m standard length (other lengths on request) |
| Pressure | 5 bars |

Dimensions

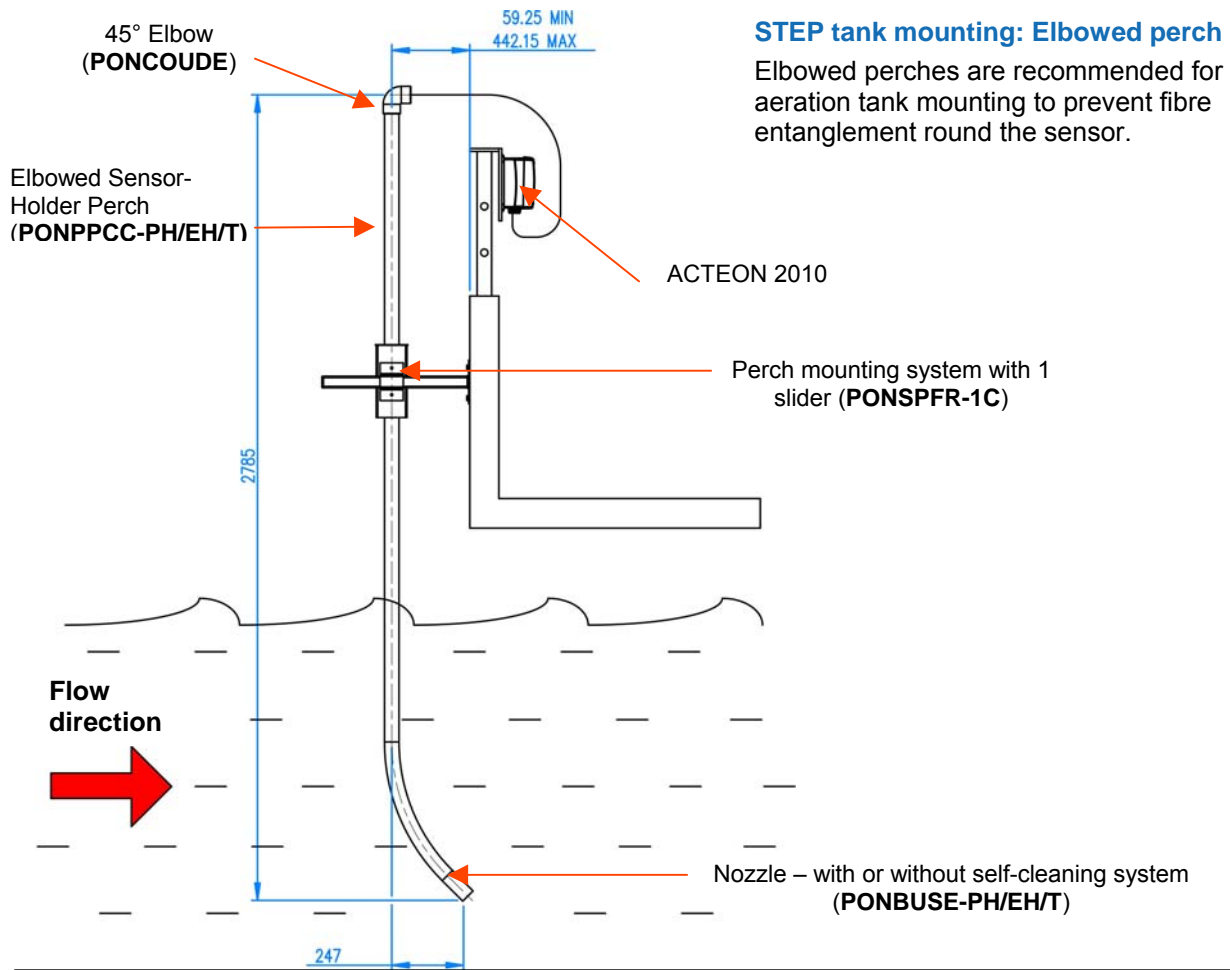


Electrical connection



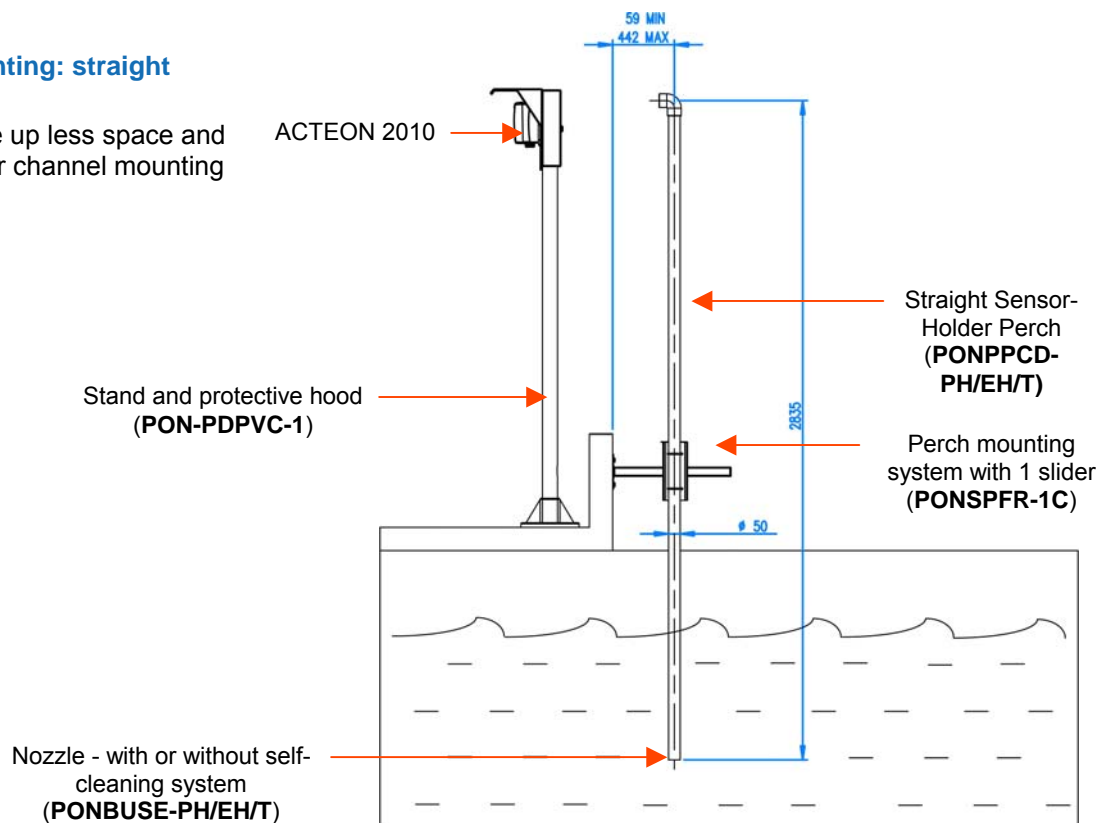
- 1 : (+) Pt 100
 - 2 : (-) Pt 100
 - 3 : (-) Pt 100 compensation
(For long cable lengths)
- } Temperature Sensor

TANK AND OPEN CHANNEL MOUNTING ACCESSORIES



Open channel mounting: straight perche

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

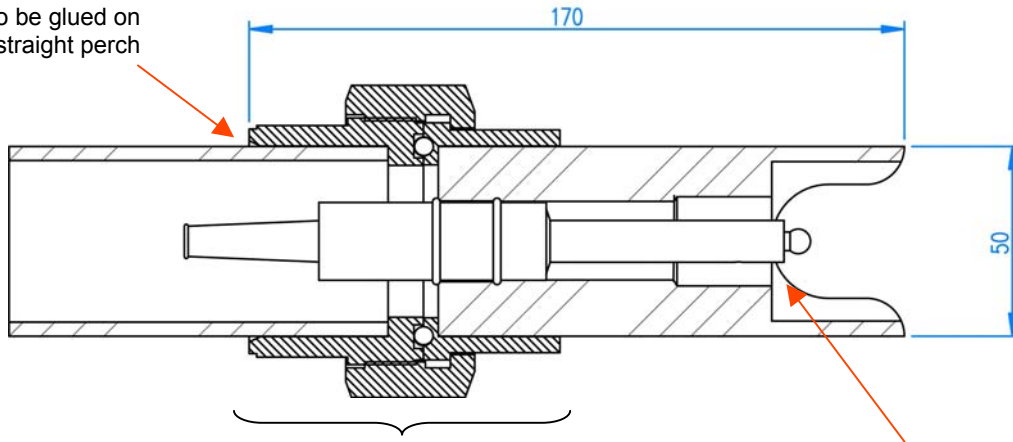


PERCH MOUNTING NOZZLES

PHL sensor nozzle (PONBUSE-PH/EH/T)

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

Connector to be glued on elbowed or straight perch



3 part PVC pressure connector
50mm diameters

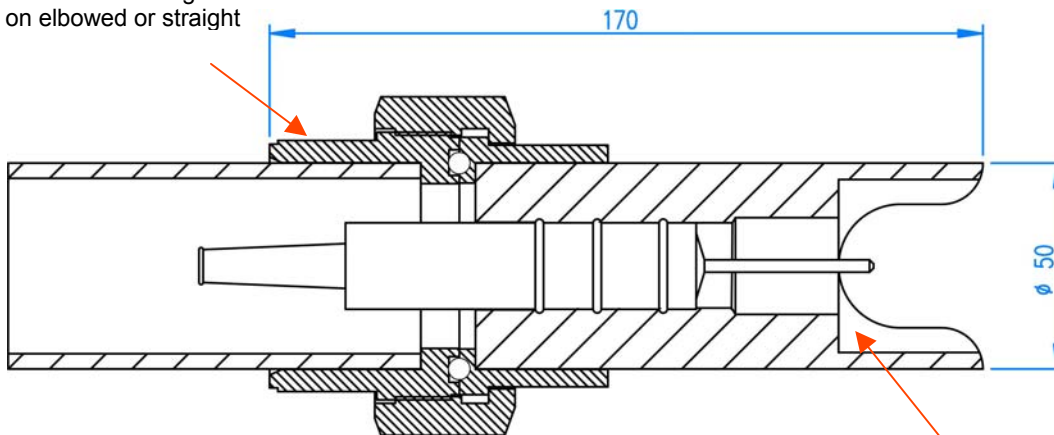
Protection strainer

► Temperature sensor

T sensor nozzle (PONBUSE-PH/EH/T)

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

Connector to be glued on elbowed or straight

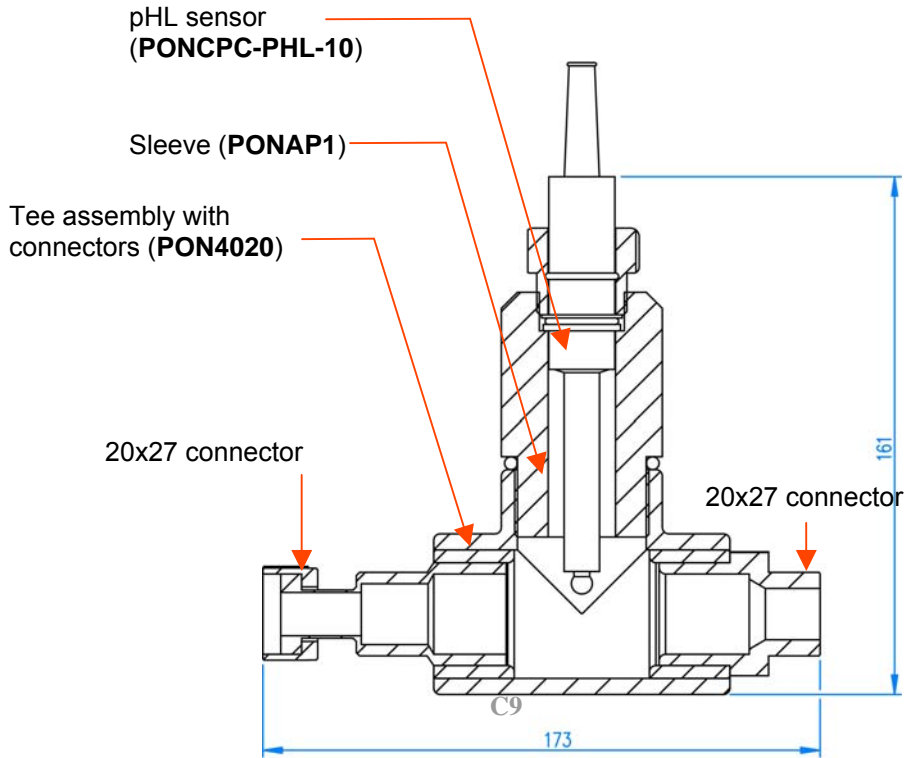


3 part PVC pressure connector
50 mm diameters

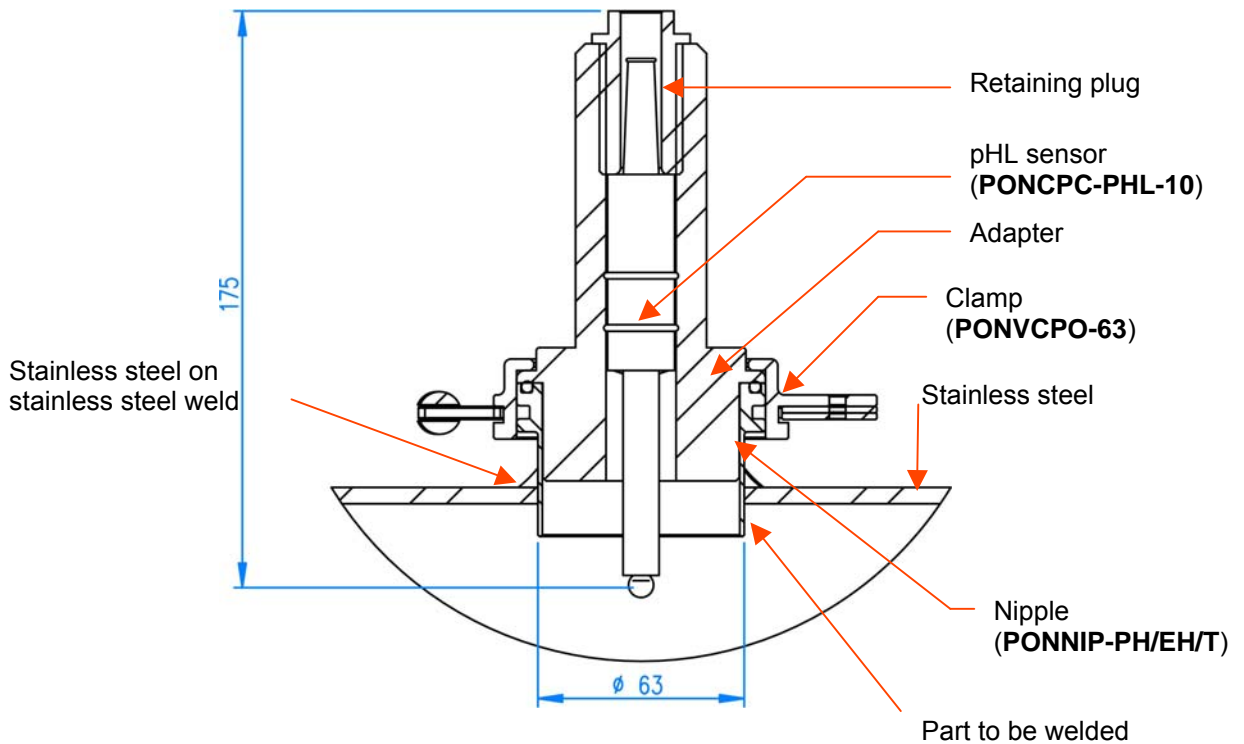
Protection strainer

PIPE-MOUNTING ACCESSORIES

PVC pipe-mounted pH sensor

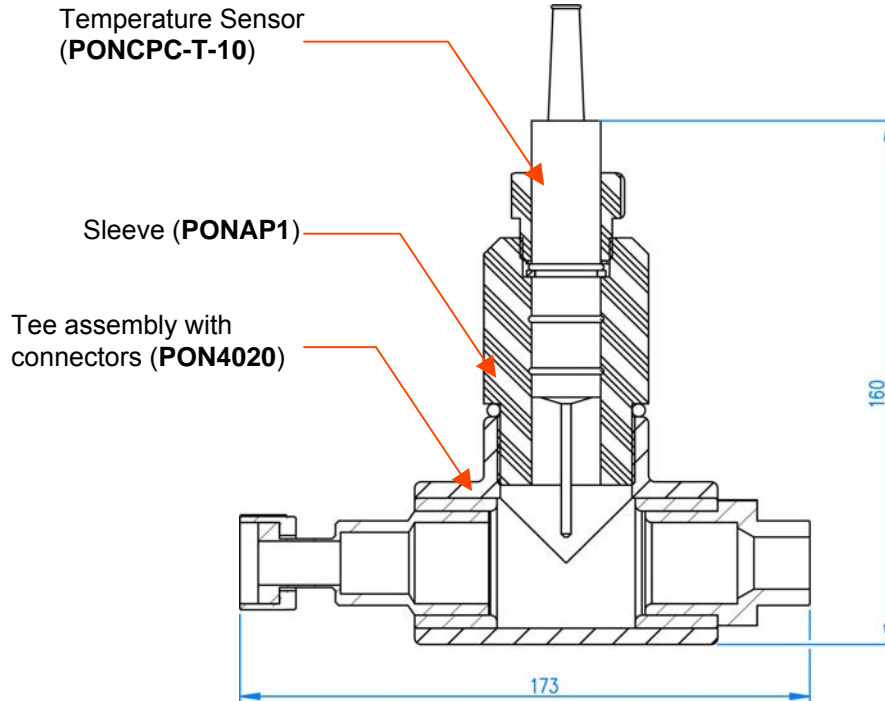


Stainless steel pipe-mounted pH sensor

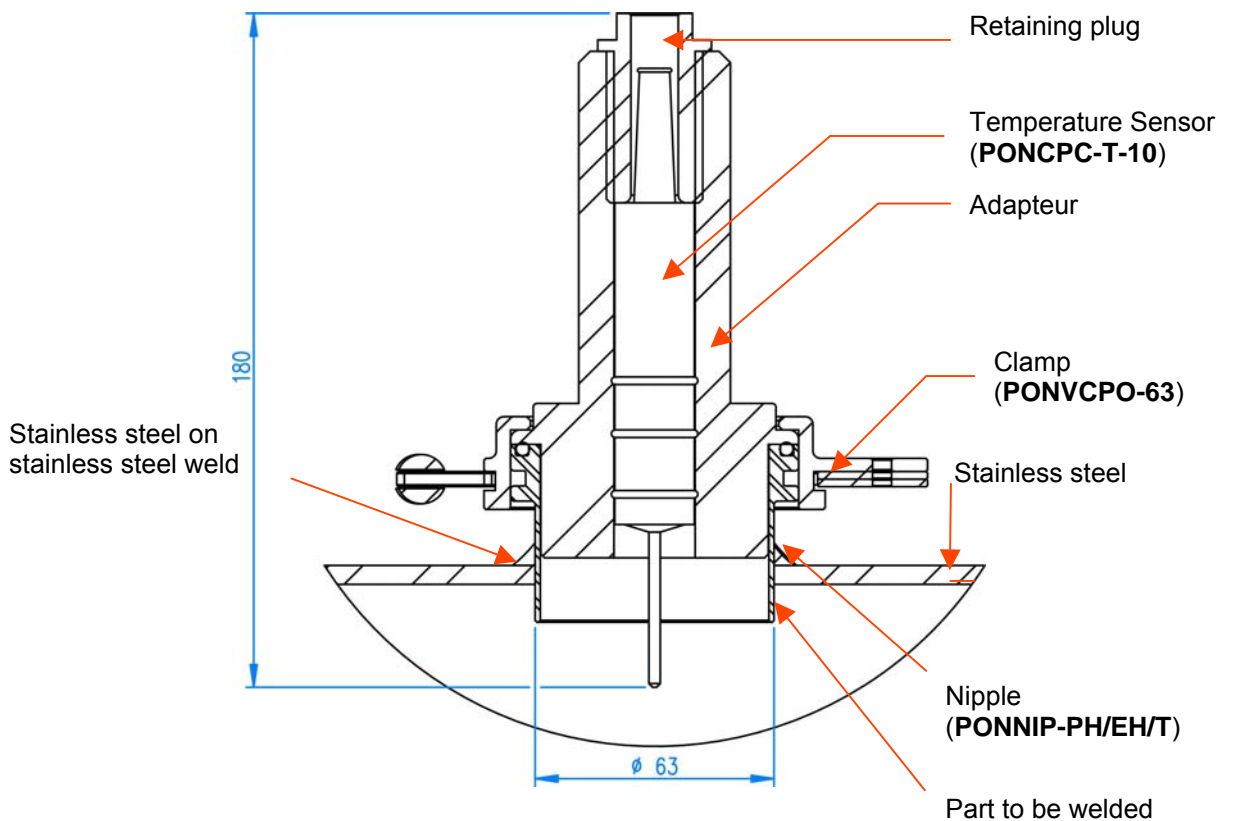


➤ Temperature sensor

PVC pipe-mounted T sensor



Stainless steel pipe-mounted T sensor



ACTEON 2011 TRANSMITTER

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- Widescreen graphic display: instant measurements, trend line, relay state, calibration state,
- Fast and simple intuitive programming;
- 4-20 mA outputs, 2 programmable relays.
- Combined pH/T sensor.



PHYSICO-CHEMICAL TRANSMITTERS

Fields of application

- Wastewater treatment (input/output controls, aeration and anoxic tanks, odour control unit),
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- Drinking water (raw water control, water treatment, output control),
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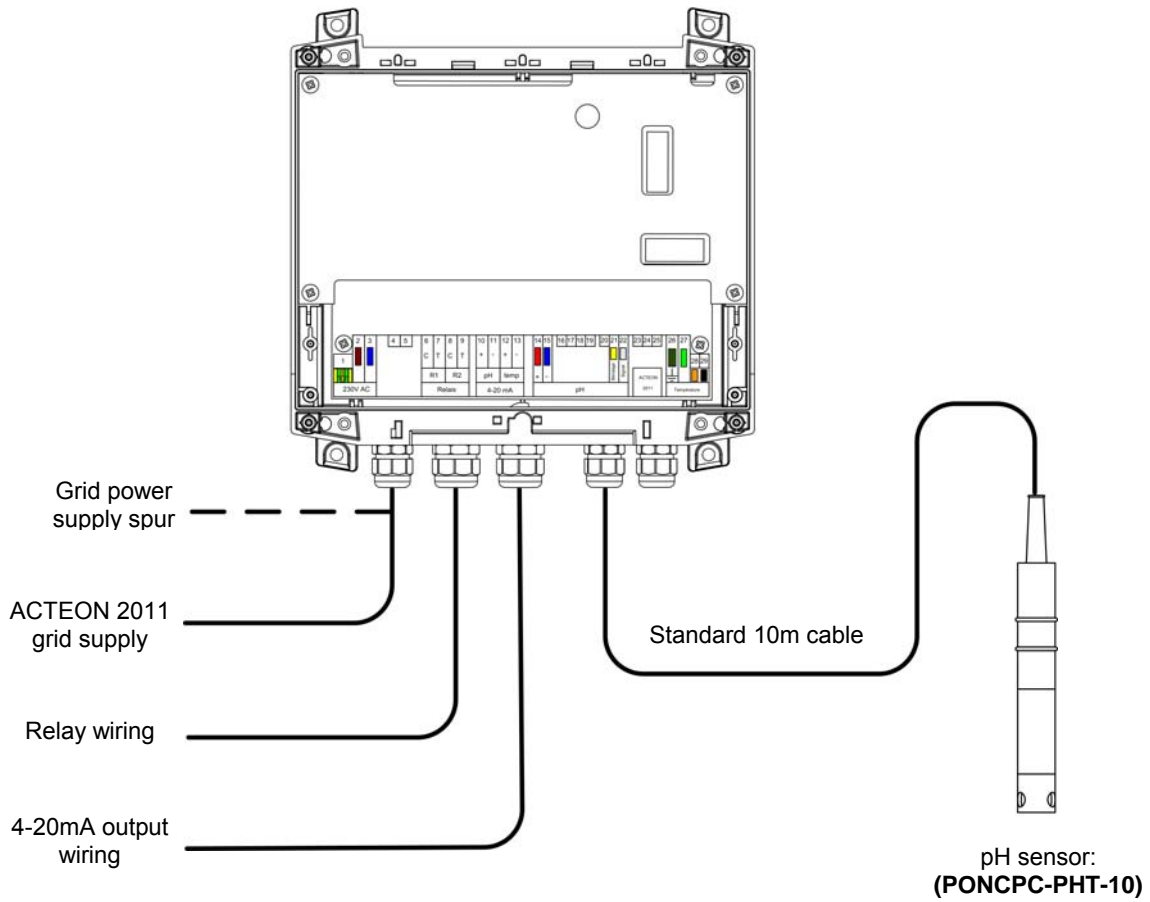
Advantages

- Widescreen graphic display for up to 24h data graphs,
- Six menus for intuitive programming,
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- 2 x 4-20 mA outputs (pH and temperature), 2 relay outputs (with several programming modes).

Technical specifications

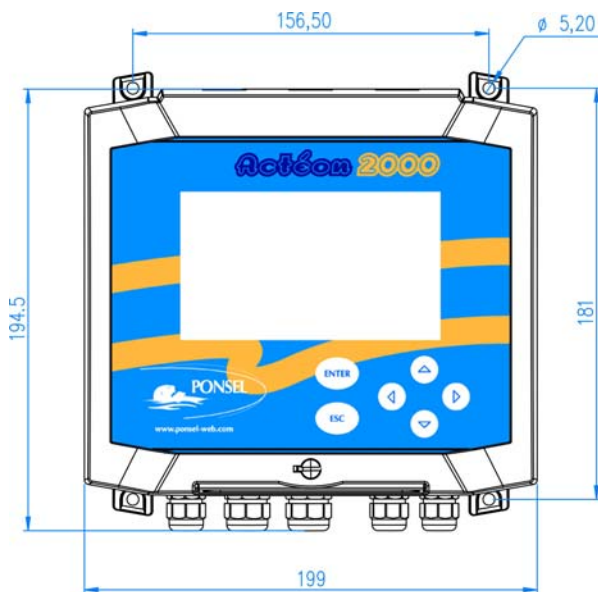
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| Casing | ABS |
| Environmental rating | IP 65 |
| Operating temperature range | -25°C to +55°C |
| Dimensions (L x W x D) /Weight | 173 x 195 x 103mm / 1.5kg |
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| Max power consumption | 10VA |
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Overview

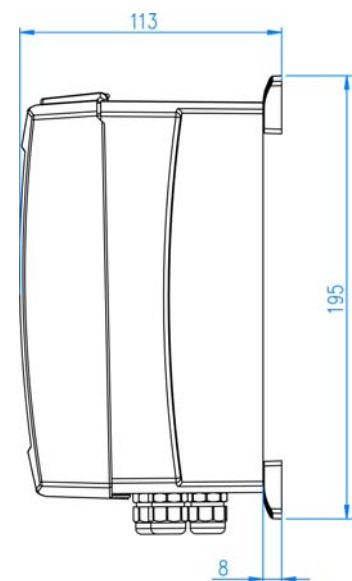


PHYSICO-CHEMICAL TRANSMITTERS

Dimensions

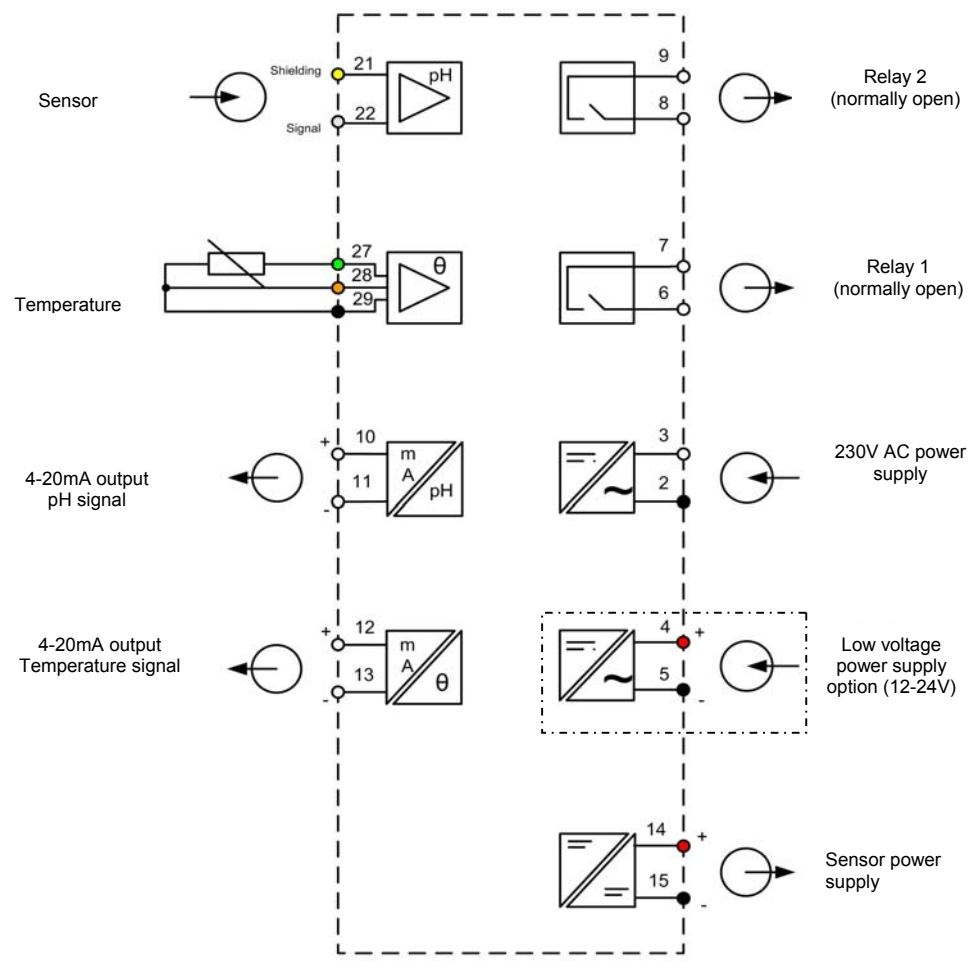


ACTEON 2000 Front view



ACTEON 2000 Side view

Electrical connections

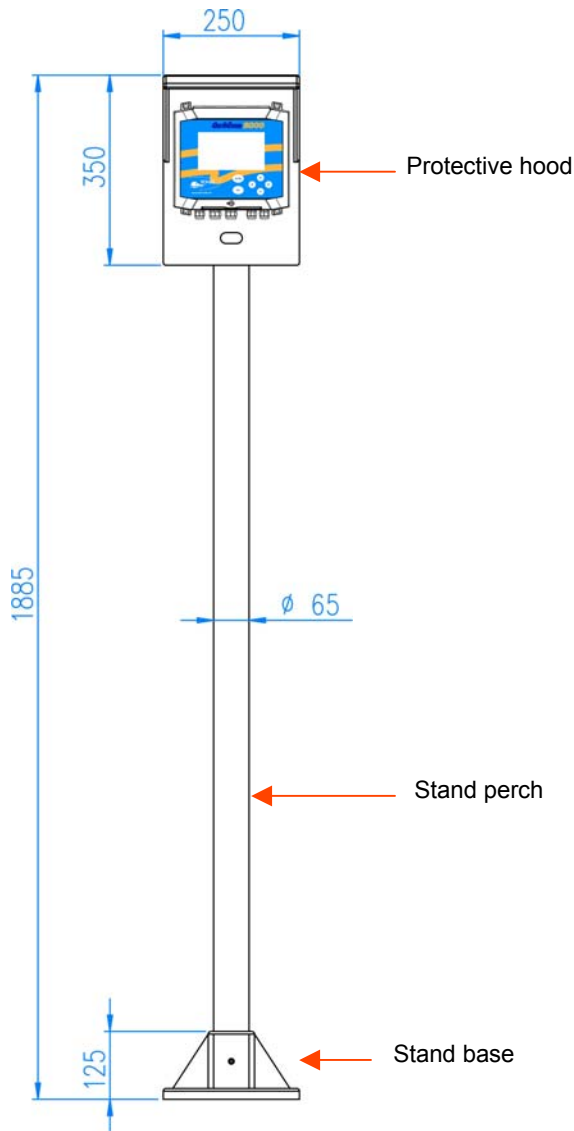


**Only with
12-24V
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PHYSICO-CHEMICAL TRANSMITTERS

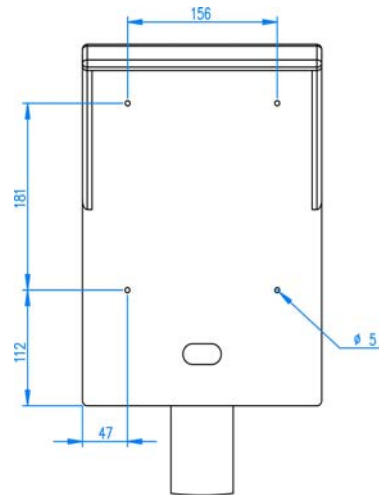
ACTEON 2011 MOUNTING ACCESSORIES

Stand and protective hood: PON-PDPVC-1

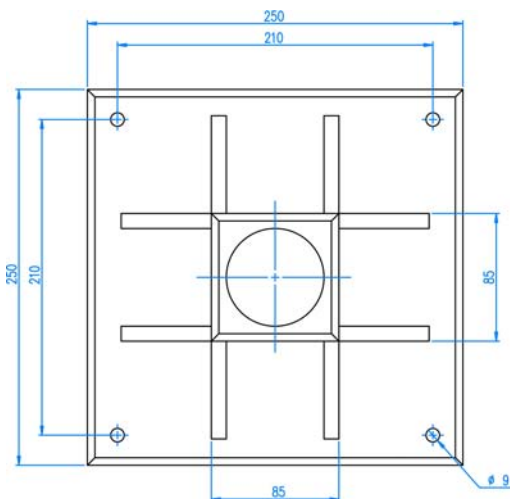
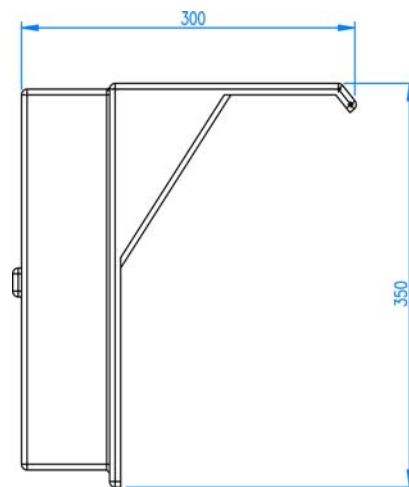


Stand hood - Front view:

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

PHT SENSOR: PONCPC-PHT-10

The combined pH/T/Reference sensor is widely used in water treatment processes (domestic waste water and industrial effluent), and in odor control and neutralisation systems, etc.

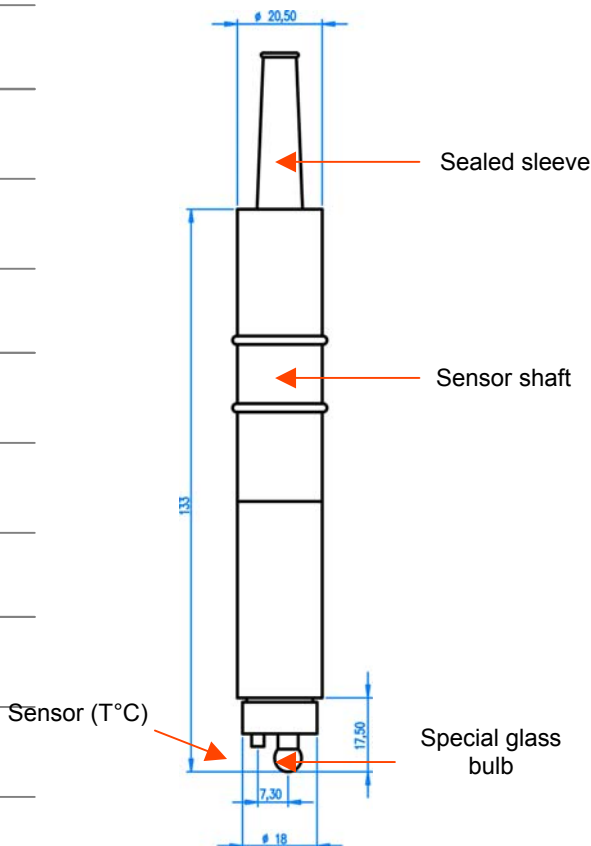
The reference uses a KCl gel for optimum measurement stability and durability. Temperature measurement is by a Pt100.



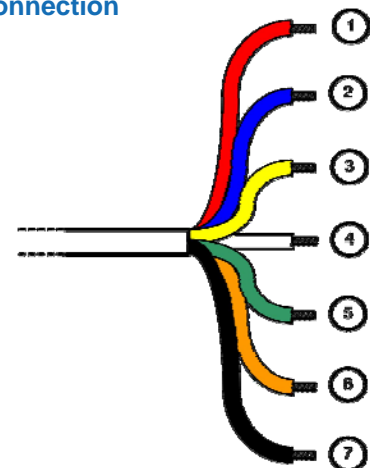
Technical specifications

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Measurement principles | pH/Reference combined electrode: pH : special glass, Ag/AgCl gelled electrolyte Reference Temperature: Platinum, type Pt 100 Ω |
| Measurement ranges | pH: 0,00-14,00 Temp. (°C): -10,00 to +100,00°C |
| Material | Delrin, glass, special glass, Pt 100 |
| Weight | 100 g |
| Waterproof rating | IP68 |
| Cable | Shielded coaxial, 10m standard length (other lengths on request) |
| Pressure | 5 bars |
| Operating temperature | 0-60°C |

Dimensions

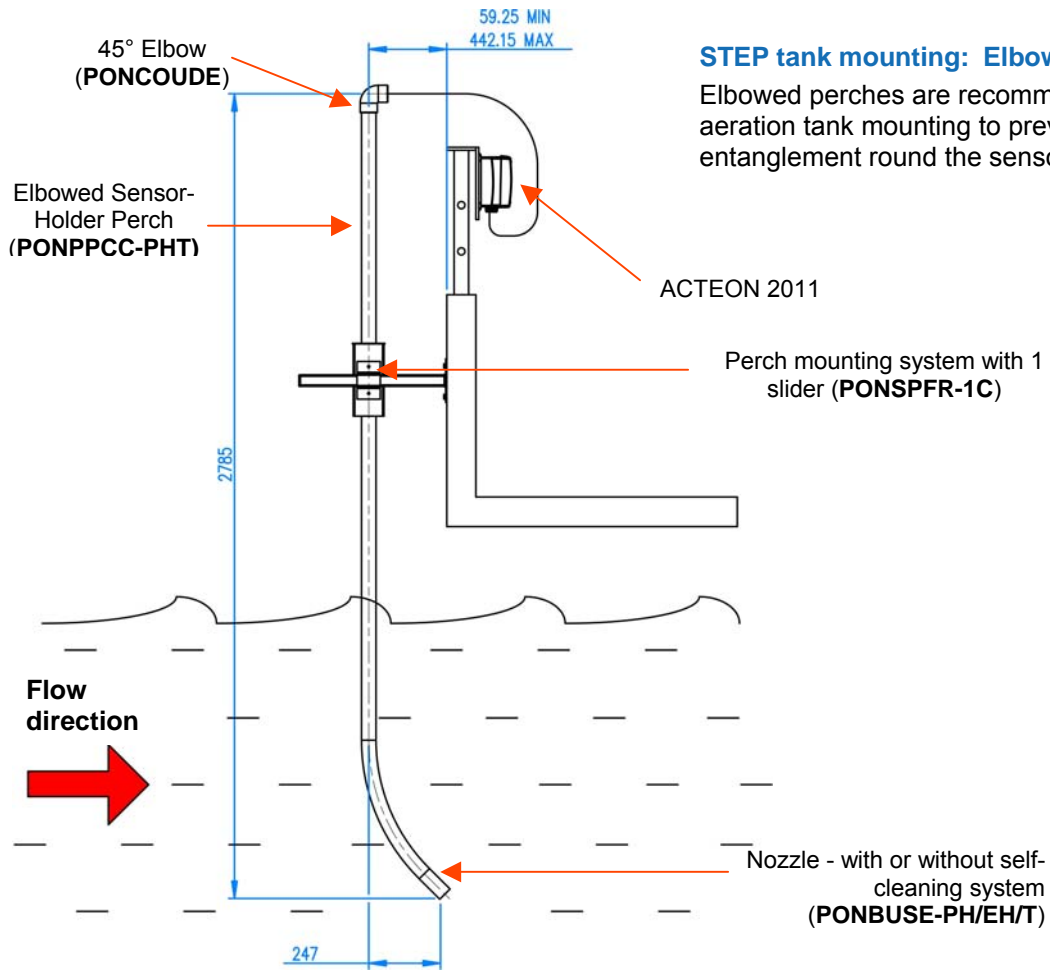


Electrical connection



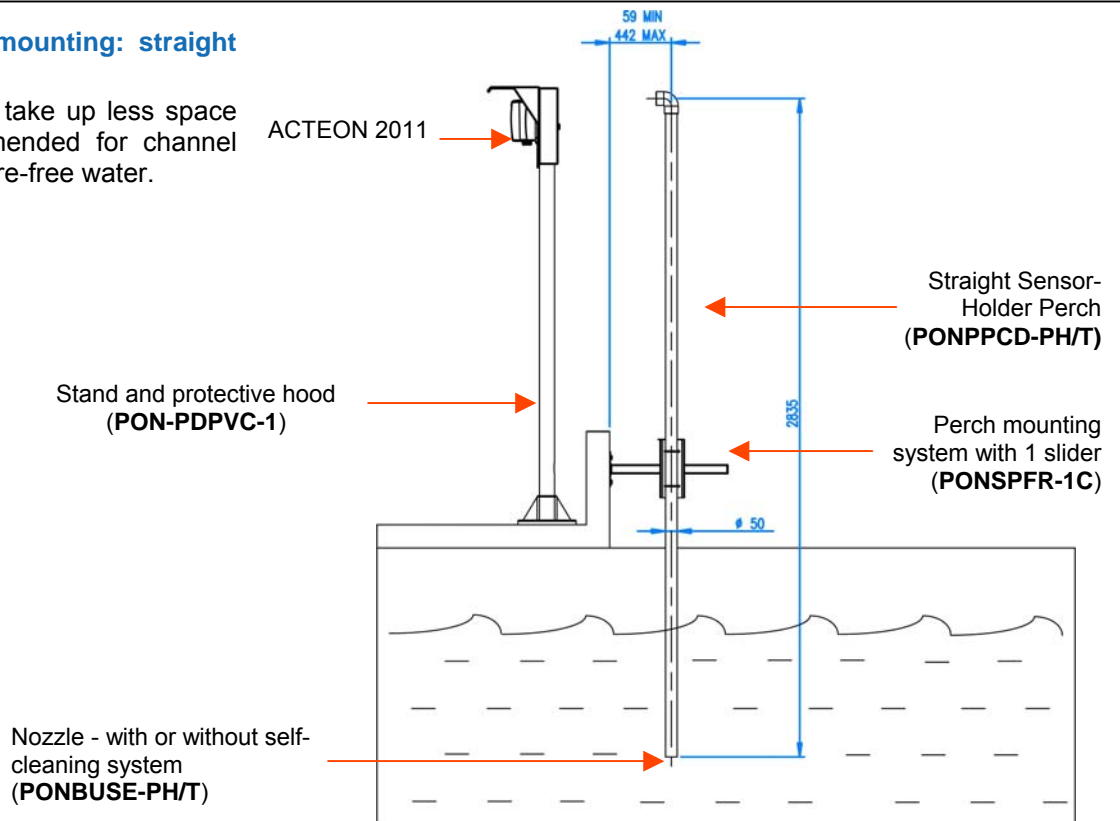
- 1 : +
 - 2 : -
 - 3 : Reference
 - 4 : Signal
 - 5 : (+) Pt 100
 - 6 : (-) Pt 100
 - 7 : (-) Pt 100 compensation
(For long cable lengths)
- } pH sensor
- } Temperature sensor

TANK AND OPEN CHANNEL MOUNTING ACCESSORIES



Open channel mounting: straight perche

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

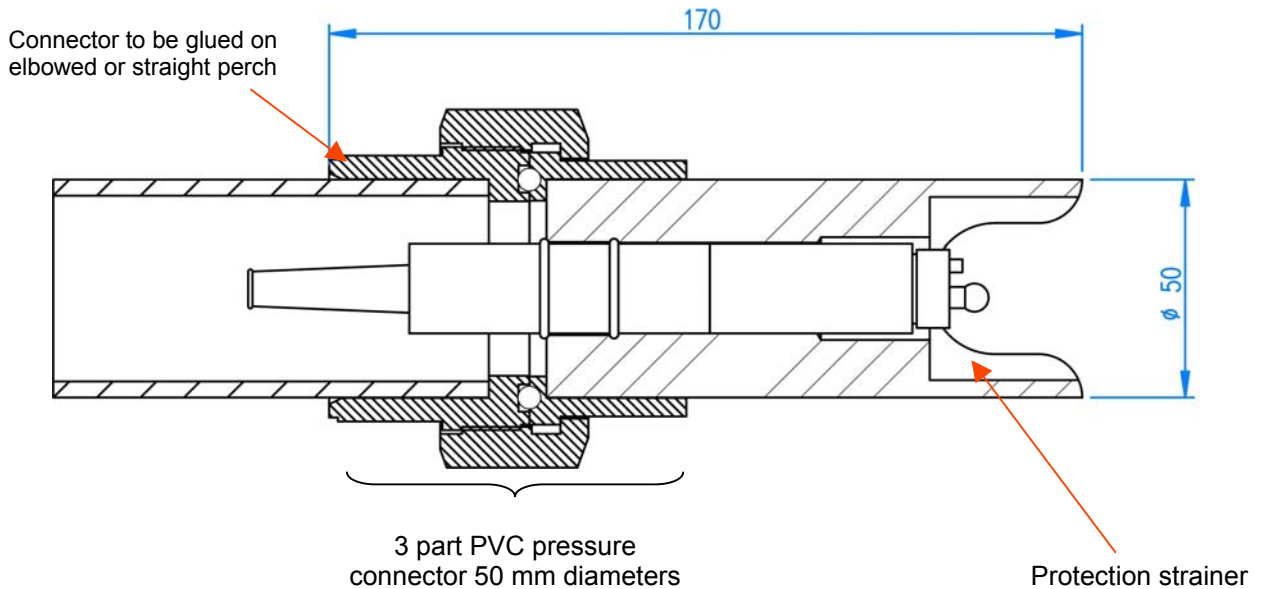


PHYSICO-CHEMICAL TRANSMITTERS

PERCH MOUNTING NOZZLES

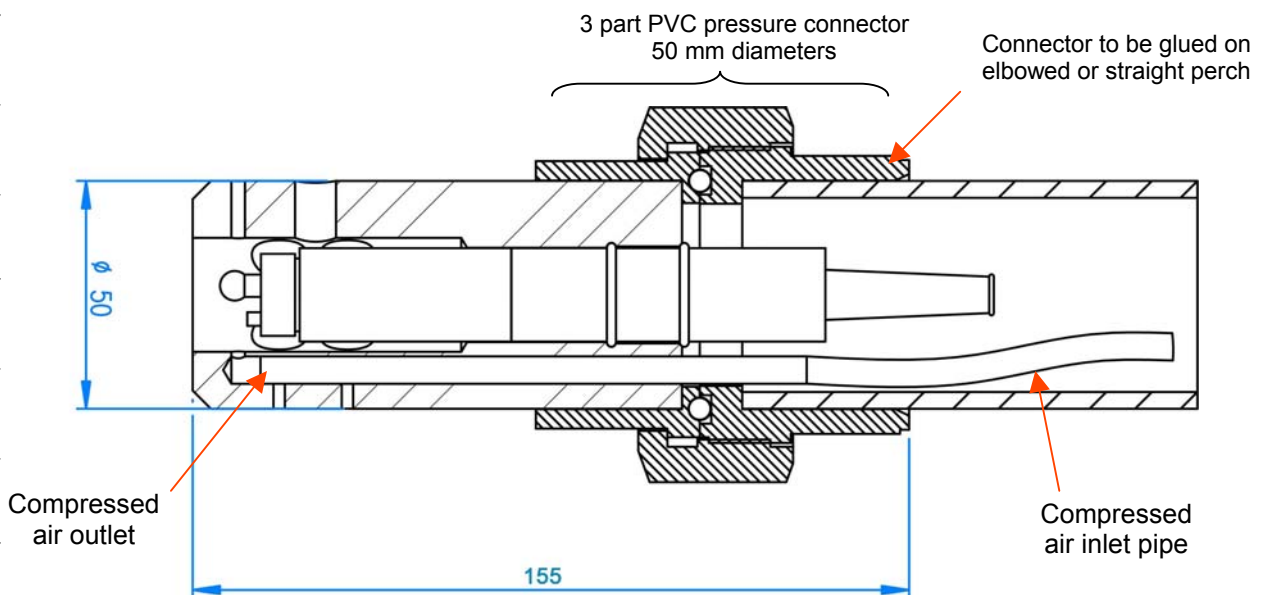
Nozzle for PHT sensor - not self-cleaning - (PONBUSE-PHT)

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



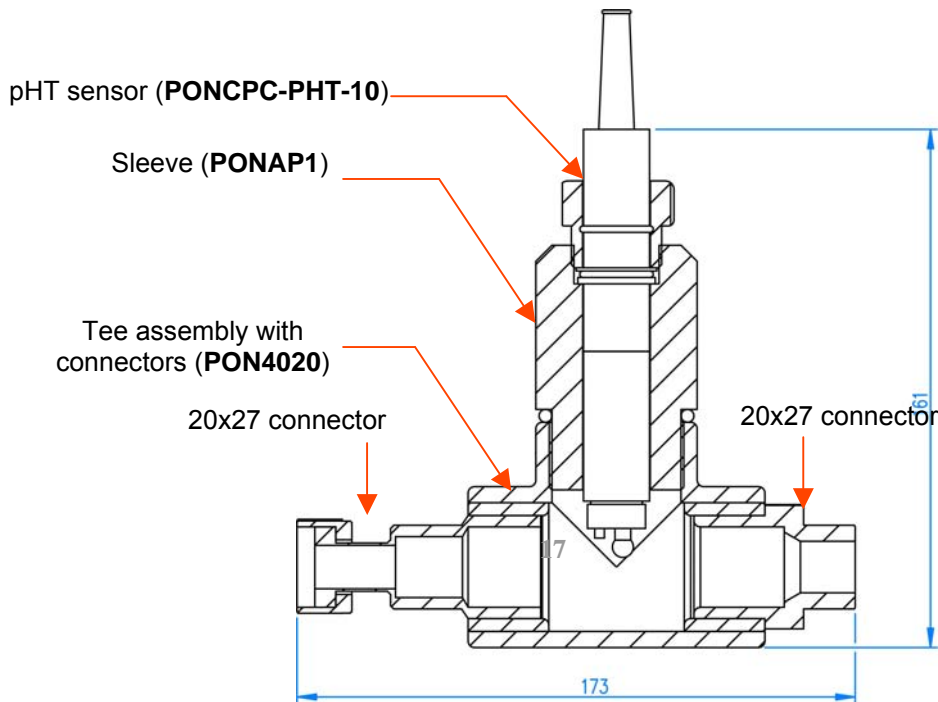
Nozzle for PHT sensor – self-cleaning – (PONBUSE-PHT-NET)

The PHT 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 glass pH sensor tip to ensure self-cleaning in fouling environments.



PIPE-MOUNTING ACCESSORIES

PVC pipe-mounted pH sensor



PHYSICO-CHEMICAL TRANSMITTERS

Stainless steel pipe-mounted pH sensor

