

3S-CLR Color Sensor

Compact online sensor for color intensity determination

APPLICATION FIELDS

- Municipal waste water
- Industrial waste water
- Rivers and surface water
- Drinking water
- Monitoring process liquids
- Measurement of water quality for distribution or discharge



ADVANTAGES / FEATURES

• **Compact design, sturdy build**

Great responsiveness in a small volume. The probe can be easily installed directly in tanks, ponds, reservoirs or inside the dedicated circulating vessel.

The titanium enclosure makes the sensor robust and durable even in the most challenging environments.

• **Low operating costs**

Minimum maintenance necessary thanks to the automatic cleaning wiper.

No reagents or filling solutions are needed.

• **Wide measuring range, low detection limit**

Determination range up to 500 Hazen.

• **Measurement principle**

The sensor measure the color intensity of water sample through the photometric absorption principle.

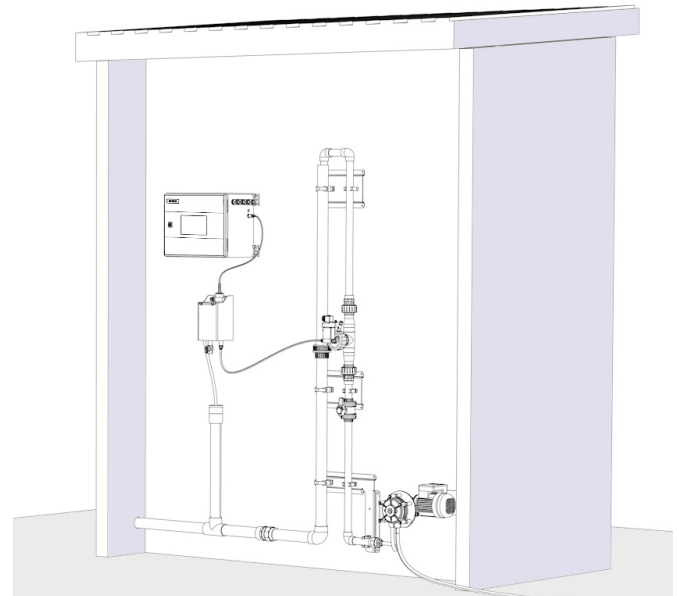
• **Easy installation**

The sensor can be installed in a flow cell or with an immersion pole/pipe directly in the sample tank. Both methods ensure a rapid response of the sensor. The automatic cleaning feature ensure long term stability of the sensor measurements.

TECHNICAL SPECIFICATIONS

Measured parameters	Color intensity
Measuring principle	Absorption photometry.
Measuring range	0 - 500 Hazen
Analysis Frequency	≥ 1 s
Sample	Pressure-free vessel (up to 3 bar) Temperature: 0 - 50 °C (32 - 122 °F)
Dimensions	Ø 46 mm, L 189.5 mm
Weight	Approx. 1 kg (2.2 lbs)
Body Material	Titanium
Power Supply	Voltage: 5 - 12 VDC Power consumption: max. 0.5 VA
Output	Modbus via RS485
Alarms	2 SPDT programmable potential free relays
Operating temperature	0 - 50 °C (32 - 122 °F)
Installation	Flow cell or immersion pipe.
Protection Grade	IP68

INSTALLATION EXAMPLE



The analyzer is easily installed in a minimum amount of wall space.

In the picture are included the optional accessories:

- a) 3S-PC1000 probe controller
- b) A46SF10020 - Filtration unit 100 micron 230 VAC
- c) A46SPP0000 - Sampling Pump



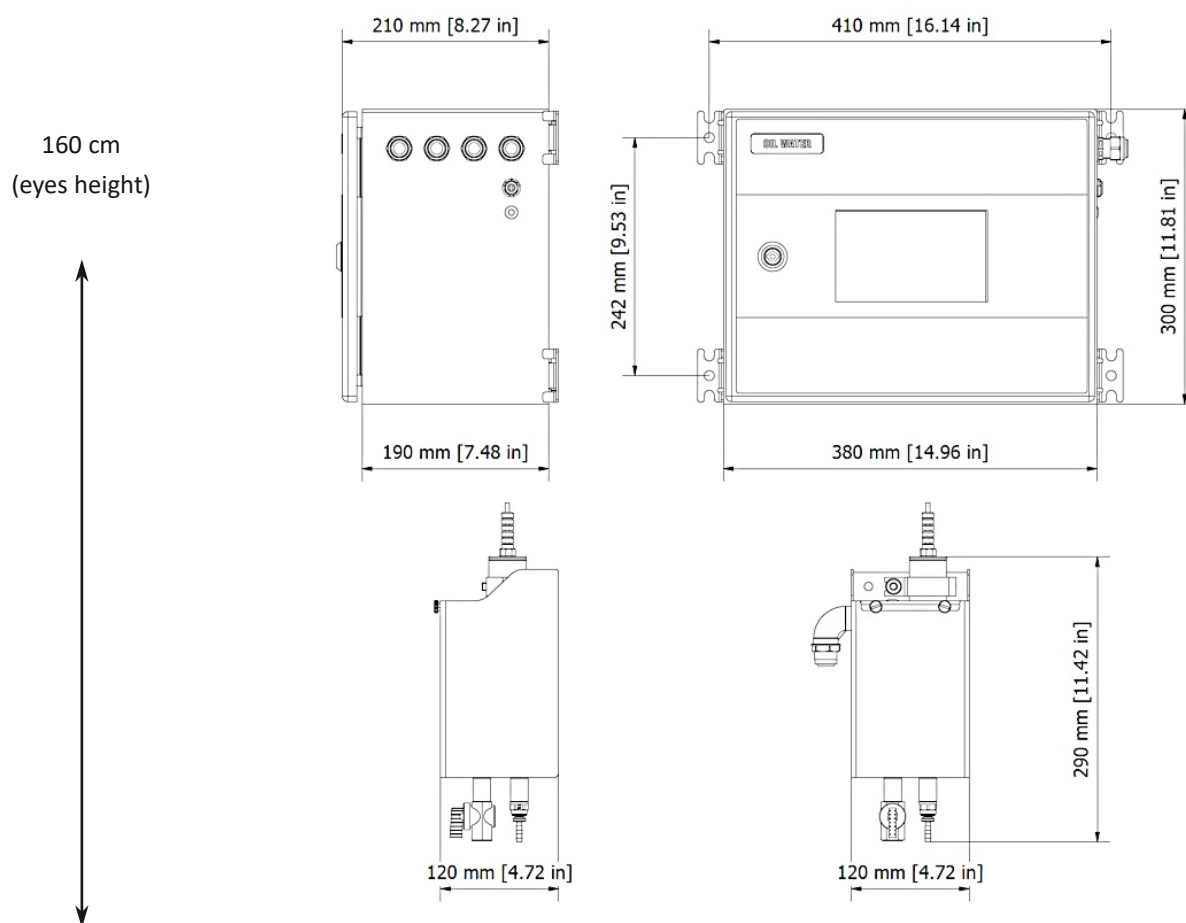
3S-CLR installation with 3S-PC1000 controller.
Please see the 3S-PC1000 manual for reference.

FAST LOOP RESERVOIR WITH PROBE



The probe can be installed in the Fast Loop sample reservoir, protected from external light and easily accessible for cleaning and maintenance.

TECHNICAL DRAWINGS



PRODUCT CODES

A46U10048	3S-CLR color sensor
3S-PC1000	Probe controller with color touch screen
A46U10049	Stainless Steel continuous flow probe holder with flow sensor 46 mm
A46U10050	Color sensor wiper