



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



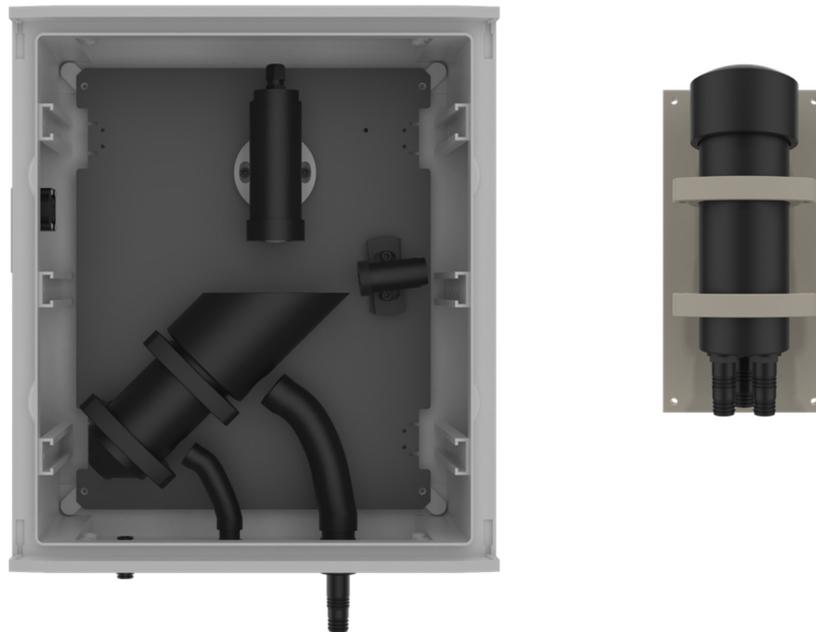
WEB APP &
DATALOGGING



ACCESSORIES

S461/N DATASHEET

NEPHELOMETRIC TURBIDITY CELL FOR BYPASS
INSTALLATION



MAIN FEATURES

- Contact-free measurement
- 90° scattering method compliant with ISO 7027 / EN 27027 with visible light beam
- Black rigid PVC sensor body
- Optional air bubble elimination device (de-bubbler)
- No mechanical moving parts
- Measurement pre-processed in the sensor, providing high sensitivity in low-signal transmission
- Quick calibration by means of pre-calibrated plate, supplied with the instrument

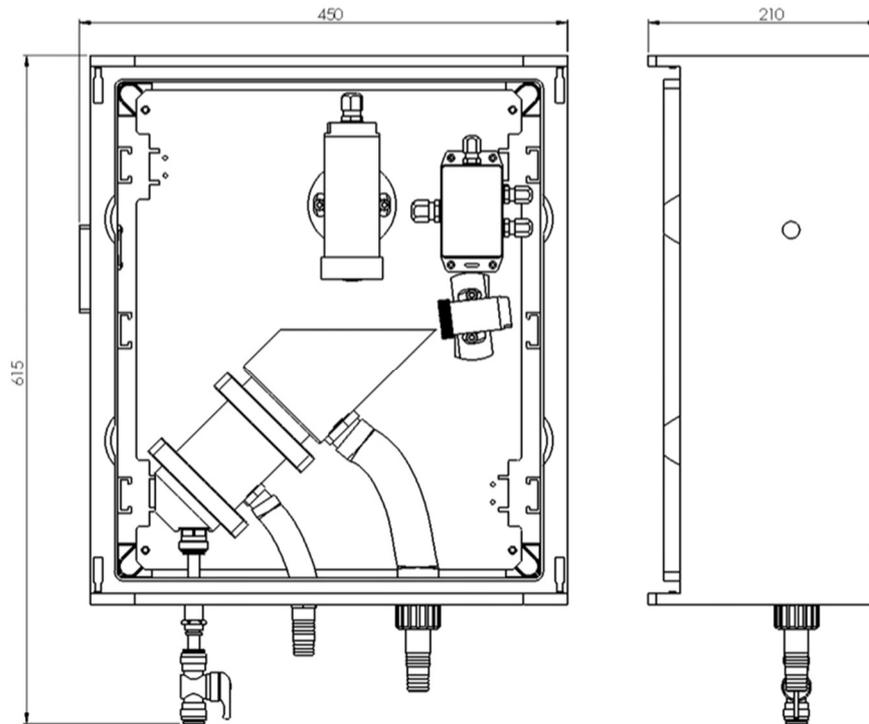
APPLICATIONS

- Primary water upstream of treatment plants
- Industrial or municipal water

TECHNICAL DATA

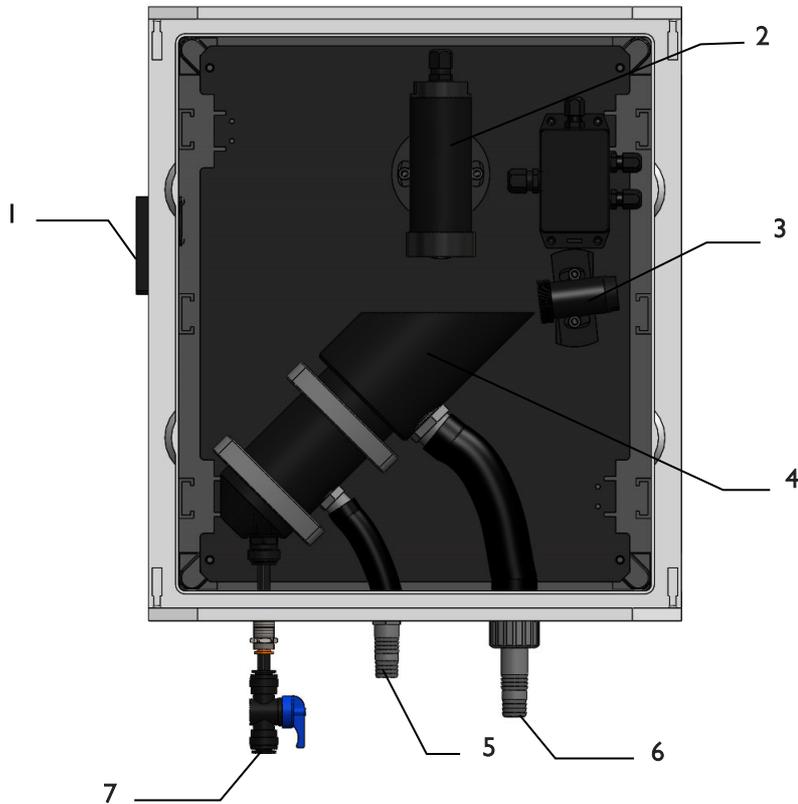
Materials	<ul style="list-style-type: none"> • ABS case • Black PVC Measuring cell, receiver assembly and spotlight assembly • Special optic glasses • NBR and silicone O-Rings
Measuring ranges	0.00 ÷ 10.00 , 0.0 ÷ 100.00, 0 ÷ 1000 NTU (FTU or FNU configurable by controller)
Measuring method	Nephelometric
Resolution	± 0.1 / ± 0.1 / ± 1 NTU
Accuracy	+/- 1 % f.s at the calibration point
Response	T ₉₀ < 60s
Working temperature	0-50 °C
Max working pressure	0,5 bar
Max absorption	5W
Cable	5m with connector
Power supply	24Vdc
Signal interface	RS-485 Modbus RTU Protocol
Flowrate	60 l/h
IP67 Connector	Yes
Cell emptying and washing	By tap valve (quick fitting)

DIMENSIONS



Mechanical dimensions	S461/N
Dimensions (L x H x P)	450x615x210mm
Mounting thickness	210mm
Material	Grey ABS
Mounting	Wall
Weight	8 Kg

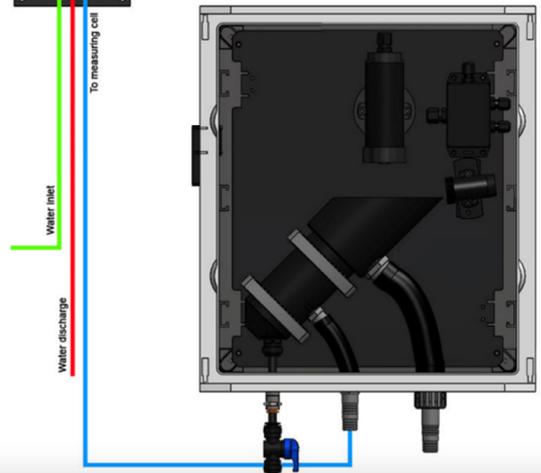
CONFIGURATION OF THE CELL



1. Cooling fan
2. Adjustable receiver assembly
3. Adjustable spotlight assembly
4. Measuring cell
5. Water inlet (1/2" hose)
6. Measuring cell outlet (1/2" hose)
7. Tap for washing and flushing the measuring cell (push-in fitting for Ø10 tube)

DEBUBBLER (OPTIONAL)

The S461 /N can optionally be equipped with an external system able to eliminate the possible presence of air bubbles inside the measuring cell. In this case, install the debubbler on the wall, using the appropriate mounting plate, and place the discharges at a height not lower than that of the top of the cell



ORDER CODES

9710619410A	S461 /N Nephelometric turbidity cell for bypass installation
9400410228	Debubbler for S461 /N nephelometric turbidity cell