



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATA LOGGING



ACCESSORIES

S461 LT DATASHEET

INFRARED TURBIDITY SENSOR



MAIN FEATURES

- Reliable concentration measurement using optical measuring process
- Infrared light pulsing beams scattering method
- Black rigid PVC sensor body
- No mechanically moving parts
- Measured value pre-processing in sensor resulting in low signal transmission sensitivity
- Immediate installation and easy maintenance

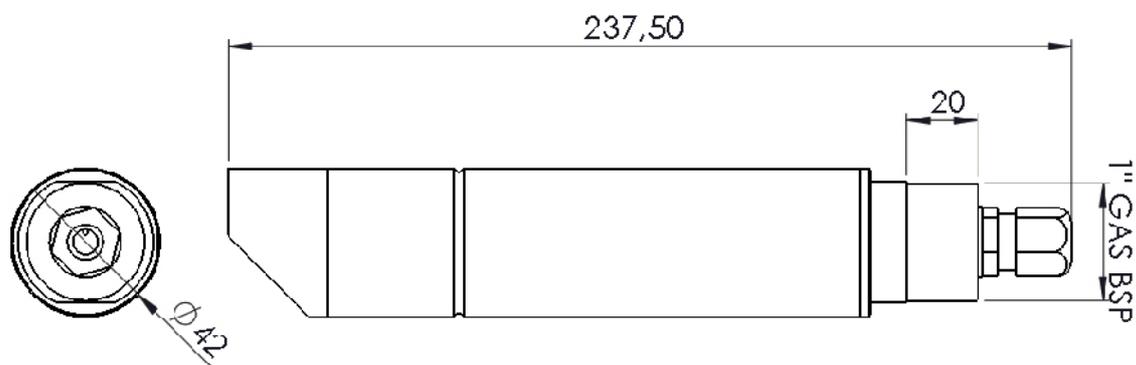
APPLICATIONS

- Measure of turbidity in pure and drinkable water
- Measure of turbidity in primary, industrial, recirculating water

TECHNICAL DATA

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|-----------------------|--|
| Materials | <ul style="list-style-type: none"> • Black PVC Body • Special Glass Optics with oleophobic treatment • Viton and Silicone OR |
| Thread | 1" GAS |
| Measuring ranges | <ul style="list-style-type: none"> - 0-10NTU - 0-100NTU |
| Measuring method | 90° Scattered light |
| Calibration method | 1-point and/or 2-point for scale |
| Resolution | <ul style="list-style-type: none"> - 0,01 NTU range_0-10NTU (0.001NTU up to 9,999NTU) - 0,1 NTU range_0-100NTU |
| Accuracy | <ul style="list-style-type: none"> - ±1% at the measuring point range_0-10 NTU - ±2% at the measuring point range_0-50 NTU - ±5% at the measuring point range_0-100 NTU |
| Repeatability | <ul style="list-style-type: none"> - ±0.05 NTU f.s 10NTU - ±0.5 NTU f.s 100NTU |
| Response | $T_{90} < 60s$ |
| Working temperature | 0÷40 °C |
| Max working pressure | 4 bar |
| Max absorption | 3W |
| Mechanical protection | IP68 Sensor+cable |
| Cable | 10m integral |
| Power supply | 12...24Vdc |
| Outputs | RS485 (4-20mA optional) |

DIMENSIONS



ORDER CODES

| | |
|------------|---|
| 9701072063 | S461LT PVC Turbidity Probe with RS485 output |
| 9701075063 | S461LT PVC Turbidity Probe with RS485 output PSS8 version |
| 9701078063 | S461LT/INS AISI316/PVC Turbidity Probe AISI 316 & PVC RS485 insertion style |
| 9701079063 | S461LT PVC Turbidity Probe with RS485 output 0,2-5NTU |
| 970107B063 | S461LT/INS/SS Turbidity Probe AISI 316 RS485 insertion style |