



SENSORS &
CONTROLLERS



ANALYZERS
& SAMPLERS



LEVEL, FLOW
& PRESSURE



WEB APP &
DATA LOGGING



ACCESSORIES

S480 UV COLOUR DATASHEET

UV SENSOR



MAIN FEATURES

The S480 COLOUR enables reliable color measurements at low cost. The sensor uses two different LEDs for stable long-term measurement of SAC or color at different wavelengths. The second channel is used for turbidity/background correction.

The modular design of the device allows optical path lengths of 50, 100, 150 and 250 mm, so that a wide range of applications can be covered.

The optional titanium housing also allows the S480 COLOUR to be used in applications in aggressive media (e.g. high chloride concentrations).

- Low investment
- Low maintenance (nano coating, air blast cleaning)
- Robust housing

APPLICATIONS

- Environmental monitoring
- Drinking water monitoring
- Industrial applications

CHEMITEC S.R.L.

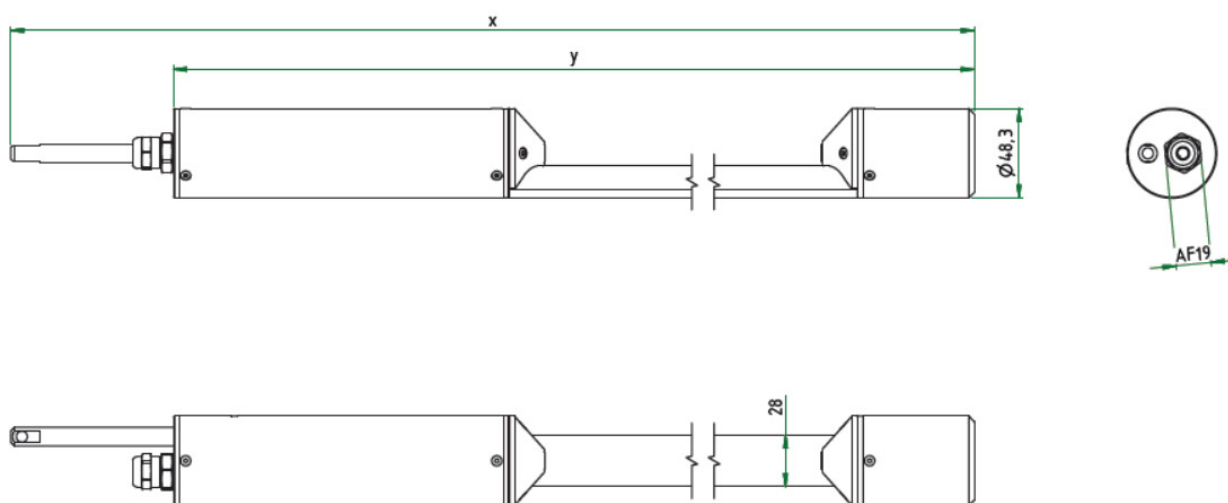
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S480 UV COLOUR DATASHEET

TECHNICAL DATA

Housing material	Stainless steel (1.4571/1.4404) or titanium (3.7035)
Measurement technology	2 LEDs Detector: Photodiode
Measurement principle	Attenuation, transmission
Optical path	mm 50,100,150,250
Parameters	SAC436, SAC525, SAC620 Color (based on DIN EN ISO 7887 (410 nm, 436nm, 525 nm, 620 nm) Pt-Co color number (APHA/Hazen) (390 nm or 455 nm) Cr-Co color number (380 nm or 413 nm)
Measurement range	SEE TABLE
Accuracy	0.5 %
Turbidity compensation	yes, 740 nm
Reaction time T100	4 s
Power consumption	≤ 1 W
Power supply	12...24 VDC (± 10 %)
Interface	RS-485 (Modbus RTU)
Required supervision	≤ 0.5 h/month (typical)
Pressure/flow	3 Bar max – In flow cell 1 bar, 2...4 L/min
Protection type	IP68
Sample temperature	+2...+40 °C
Ambient temperature	+2...+40 °C
Storage temperature	-20...+80 °C
Inflow velocity	0,1...10 m/s

DIMENSIONS



MEASUREMENT RANGES

Parameter Variations	According to the standard	Unit	Factor	Path Length [mm]				
				10	50	100	150	250
SAC 436 nm	DIN EN ISO 7887:2011_method B	l/m	-	0.5...150	0.1...30	0.05...15	0.03...10	0.02...6
SAC 525 nm	DIN EN ISO 7887:2011_method B	l/m	-	0.5...150	0.1...30	0.05...15	0.03...10	0.02...6
SAC 620 nm	DIN EN ISO 7887:2011_method B	l/m	-	0.5...150	0.1...30	0.05...15	0.03...10	0.02...6
True Color 410 nm	DIN EN ISO 7887:2011_method C	mg/L Pt	18.52	10...2800	2...560	1.0...280	0.6...185	0.4...110
Pt-Co-Color 390	DIN EN ISO 6271-2016:05	mg/L Pt	7.4	4...1100	0.8...220	0.4...110	0.3...75	0.2...45
Pt-Co-Color 455	DIN EN ISO 6271-2016:05	mg/L Pt	36.4	20...5500	4...1100	2.0...550	1.5...360	0.8...220
Cr-Co-Color 380	-	° (color degree)	9.7	5...1500	1...300	0.5...150	0.3...100	0.2...60
Cr-Co-Color 413	GOST 3351:1974	° (color degree)	34.1	20...5500	4...1100	2.0...550	1.5...360	0.8...220
Turbidity 740 nm	-	FAU**	6.0 / 0.01242	3...330	0.6...60	0.3...30	0.2...20	0.12...12

ORDER CODES

9720950057	S480COLOUR/A/SAC436 Sensor for Colour measurement o.p. 50 SS 10m c.
9720950157	S480COLOUR/A/Pt-Co455 Sensor for Colour measurement o.p. 10 SS 10m c.