DIGITAL TRANSPARENCY SENSOR - DS300

DESCRIPTION

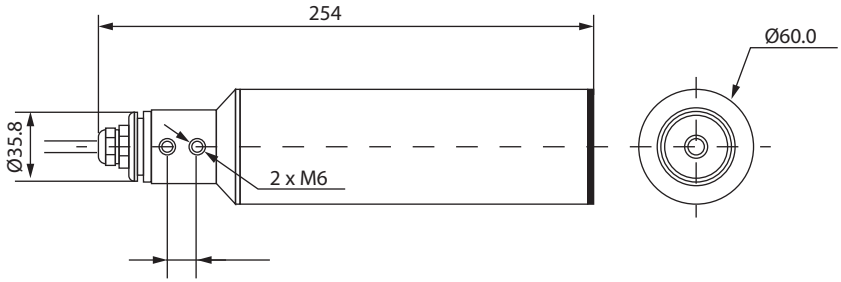
The DS300 Series online digital transparency sensor is used as an indicator for judging the degree of black odor in black and smelly water. It is based on the combined infrared absorption and scattering method. Transparency is closely related to light penetration and attenuation in submerged ecosystems and is important for monitoring changes in water ecology and biogeochemical processes, such as photosynthesis and growth of phytoplankton, sediment transport and resuspension.

The DS300 sensor adopts dual-beam infrared scattering photometer detection technology, which has good repeatability and stability. The cleaning scraper (optional) offers an automatic cleaning function to minimize the maintenance of the sensor. DS300 is suitable for monitoring surface water, aquaculture, inland rivers, lakes and reservoirs.

FEATURES

- ✓ Dual-beam infrared scattering photometer detection technology
- ✓ Stable and good repeatability
- ✓ Built-in self-diagnosis function
- ✓ Strong anti-interference ability
- ✓ Self-cleaning function (optional)
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



TECHNICAL FEATURES

Range	2 to 100cm
Flow Rate	≤2.5m/s, 8.2ft/s
Pressure Range	≤0.4Mpa
Measuring Temperature	0 to 45°C
Storage Temperature	-15 to 50°C
Accuracy	±0.3cm or ±5% of the measured value

Electrical

Power Supply	AC: 85-500 V AC (50/60Hz)
	DC: 9-36 V DC
Communication	RS485 (Modbus)
Output	3-way 4-20mA

Dimension and Protection

Dimension	Diameter 60 mm, Length 254 mm
Weight	1.65kg
Protection	IP68/NEMA 6P
Signal Cable Length	Standard 10 meter (Maximum 100 meter)