

SIGNUX TUR01

Water quality — RS485



SX-TUR01



DESCRIPTION

Digital turbidity transmitter for water quality monitoring. It measures by 90-degree scattered light, with an infrared source and a fibre-optic light path; internal filtering against ambient light and automatic temperature compensation, for continuous submerged measurement. Plastic or stainless steel housing.

FEATURES

- 90° scattered light: The standard method for turbidity. With internal filtering and a fibre-optic light path, ambient light does not affect the reading.
- Four ranges: From 50 to 4000 NTU. Chosen when ordering: a 50 NTU unit cannot measure a thousand, and it is not reconfigured afterwards.
- Temperature compensated: A built-in temperature sensor corrects the reading automatically, so the probe can stay in the water measuring continuously.
- Waterproof, IP68: Corrosion-resistant plastic or stainless steel housing, and five metres of cable.

AT A GLANCE

Measures	Turbidity · Temperature
Output	RS485
Protection	IP68
Operating	0 to +40 °C

Specifications subject to change without notice for product improvement. For installation and commissioning, refer to the device manual; the current version of both documents is always available on the product page.

GENERAL

Measured parameters	Turbidity · Temperature	
Output	RS485	
Measurement principle	90° scattered light	Infrared LED source and fibre-optic light path

TURBIDITY

Range	0-50 / 0-200 / 0-1000 / 0-4000 NTU	Set when ordering; not reconfigurable
Resolution	.01 NTU	In the 0.00-50.00 NTU range
	.1 NTU	In the 0.0-200.0 NTU range
	.1 NTU	In the 0.0-1000.0 NTU range
	1 NTU	In the 0.0-4000.0 NTU range
Accuracy	±5 % FS	At 25 °C
Response time	≤30 s	
Compensation	Automatic	Built-in temperature sensor

TEMPERATURE

Resolution	.1 °C
Accuracy	±0.5 °C

OUTPUT AND POWER

Output interface	RS485	Modbus RTU, baud rate configurable from 1200 to 115200 baud
Protocol	Modbus RTU	Function codes 3, 4, 6 and 16
Power supply	10-30 VDC	
Power consumption	.2 W	
Factory defaults	4800 8N1, address 1	

CONSTRUCTION

Protection rating	IP68	
Operating temperature	0 to +40 °C	
Housing	Corrosion-resistant plastic or stainless steel	As ordered
Pipe connection	NPT 3/4 thread	For mounting on a waterproof pipe
Dimensions	Ø30 × 134 mm	Plastic housing
	Ø30 × 144 mm	Stainless steel housing
Cable length	5 m	Four-core cable with flying leads
Service life	2 years	Under normal use

PART NUMBERS

PART NUMBER	MATERIAL / HOUSING	MEASUREMENT RANGE
SX-TUR01-P-50	Plastic	0-50 NTU
SX-TUR01-P-200	Plastic	0-200 NTU
SX-TUR01-P-1000	Plastic	0-1000 NTU
SX-TUR01-P-4000	Plastic	0-4000 NTU
SX-TUR01-S-50	Stainless steel	0-50 NTU
SX-TUR01-S-200	Stainless steel	0-200 NTU
SX-TUR01-S-1000	Stainless steel	0-1000 NTU
SX-TUR01-S-4000	Stainless steel	0-4000 NTU

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