Turbidity/S.S. & MLSS Transmitters

TC-7310-RS & TC-7310-RS-M

Applications:

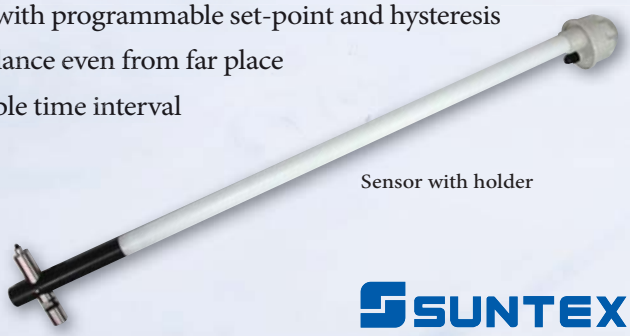
- Wastewater effluent
- Cooling water
- Activated sludge process
- Digestion sludge process

Features:

- 144 x 144 mm Intelligent Turbidity/S.S. Transmitter (TC-7310-RS) and MLSS Transmitter (TC-7310-RS-M)
- User-friendly operation with text and graphic illustrations, clear signs and easy to understand
- Large LCM display with auto-sense backlight and contrast setting function
- Measuring value can be selected for figure or chart display
- Trace mode can display historical measured value curve from 3-minute to 4-week program
- Equipped with event logbook and error diagnosis record
- High durability sensor features SUS 316L sensor casing and hard-to-scratch sapphire
- Sensor equipped with self-clean wiper system keeps lens clean and makes maintenance easy
- With passcode and multi-key design—security protection enhancement
- Isolated current output DC 0/4~20mA corresponding to measurement value
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact output with programmable set-point and hysteresis
- Three separate LED indicated alarms for recognition at a glance even from far place
- Automatic detector wiper clean function with programmable time interval
- Equipped with one analog output and RS-485 interface
- IP 65 (NEMX 4X) waterproof and dustproof design

Turbidity/S.S. sensor

MLSS Sensor



Sensor with holder

SUNTEX
ISO 9001 Certified

Turbidity/S.S. & MLSS Transmitters

TC-7310-RS & TC-7310-RS-M

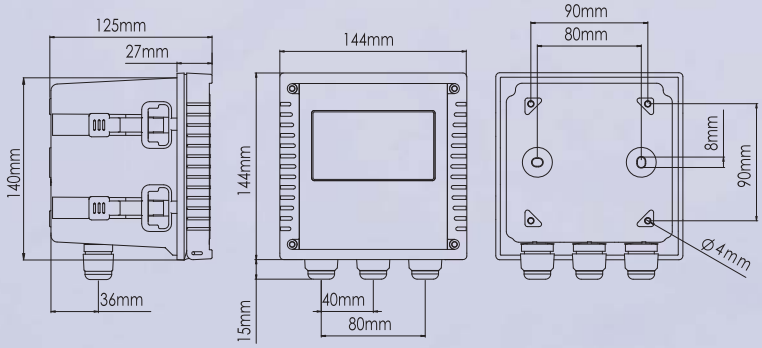
Specifications:

Model		TC-7310-RS	TC-7310-RS-M
Measuring Mode		Turbidity/Suspended Solids	MLSS
Measuring Unit		Turbidity: NTU, FTU, FNU Suspended Solids: mg/l, ppm	mg/l, ppm
Measuring Range		0~100 NTU (TC-100 sensor) 0~500 NTU (TC-500 sensor) 0~3000 NTU (TC-3000 sensor) 0~1000 ppm (TCS-1000 sensor)	0~50,000 mg/l (ppm) (TS-MxS-A sensor)
Resolution		0.01 NTU (TC-100 sensor) 0.1 NTU (TC-500 sensor) 1 NTU (TC-3000 sensor) 0.1 ppm (TCS-1000 sensor)	1 mg/l (ppm) (TS-MxS-A sensor)
Calibration Mode		Standard solution up to 5 points calibration and calibration by factor correction	
Electrode Zero		Sensor internal zero point correction activation function	
Ambient Temp.		0~50°C (Sensor working temp.: 0~40°C)	
Storage Temp.		-20~70°C	
Display		Large LCM with sensor for backlight and contrast	
		Text mode: Numerical display	
		Chart mode: 3 min real-time dynamic graph	
		Trace mode: Programmable 3 min to 4 week trend graph	
Analog Output		Isolated DC 0/4~20 mA corresponding to main measurement, Max. load 500Ω	
Serial Interface		Isolated RS-485 (MODBUS RTU or ASCII)	
Logbook		50 events	
Settings	Contact	RELAY contact, 240 VAC 0.5 A Max. (recommended)	
	Activate	Hi/Lo, Hi/Hi, Lo/Lo selectable, two limited programmable, ON/OFF	
Wash		RELAY contact: ON 0~99 min 59 sec / OFF 0~999 hr 59 min	
Sensor Wiper		Auto, sensor internal function for fixed 10 min per wipe, or 30 min per wipe (for TC-100 sensor only)	
		Manual, setting from 2~9 min per wipe or 2~29 min per wipe (for TC-100 sensor only)	
Voltage Output		DC±12V	DC±24V
Power Supply		100 V~240 VAC ±10%, 8W max., 50/60 Hz	
Installation		Wall or Pipe or Panel Mounting	
Dimensions		144 mm × 144 mm × 115 mm (H × W × D), 1/2 DIN	
Cut-off Dimensions		138 mm × 138 mm (H × W)	
Weight		0.8 kg	
Protection		Transmitter: IP65 (NEMA 4X); Sensor: IP68 (max. depth of 2m underwater)	

* The specifications and appearance of the instrument are subject to change without notice.
Accessories: Panel Mounting clip kit, Plastic L-shaped sensor holder support base

Optional Accessories:

1. Turbidity/S.S. sensor with 10m cable
2. MLSS sensor with 9m cable
3. Immersive protection holder
4. Stainless steel holder support base
5. Sun shield for wall or pipe mounting



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