

Microprocessor MLSS Transmitter

TC-7100-RS-M



Applications:

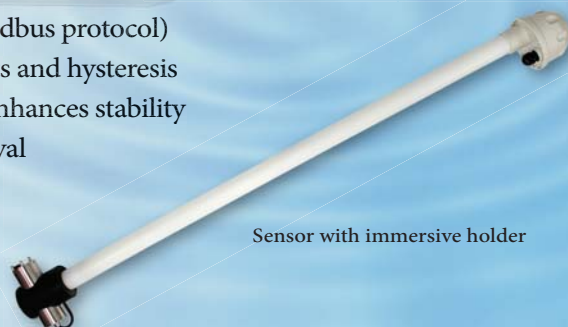
- Wastewater treatment
- Activated sludge process

Features:

- 144 x 144mm Microprocessor MLSS Transmitter
- The transmitter can be used for continues monitoring mixed liquor suspended solids, MLSS (with TS-MxS-A MLSS sensor)
- High durability sensor features stainless steel sensor casing and hard-to-scratch sapphire
- No measurement error by color, bubbles and scratch
- Sensor equipped with self-clean wiper system keeps lens clean and makes maintenance easy
- 1/2/3/4/5 point auto calibration
- Online calibration corrects the measurement according to laboratory or field analysis
- Automatic function: auto cal., self diagnosis
- Large LCD display with auto-sense AUTO/ON/OFF programmable illumination
- With password and multi-key design----security protection enhancement
- Isolated current output DC 0/4~20mA corresponding to measurement value
- Equipped with one analog output and one RS-485 interface (Modbus protocol)
- Hi/Lo two limited contact outputs with programmable set-points and hysteresis
- Gradually continuous sample measurements average program enhances stability
- Automatic sensor clean function with programmable time interval
- Last calibration data & time display function
- LED indicator alarm and wash status signal
- Real time clock display function
- IP 65 (NEMA 4X) waterproof and dustproof design



MLSS Sensor



Sensor with immersive holder



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Specifications:

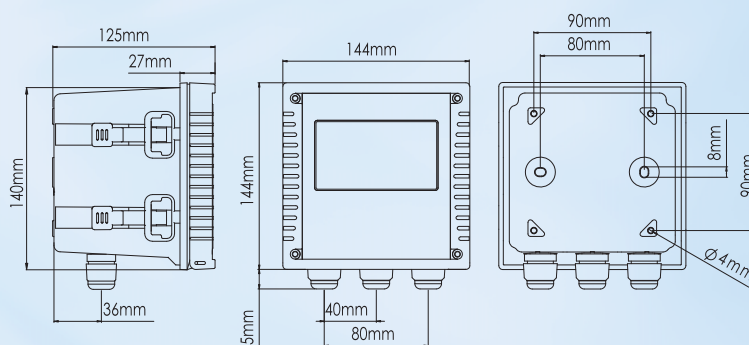
Model		TC-7100-RS-M
Measuring mode		MLSS
Measuring unit		g/L
Measuring range		0.000 g/L ~ 50.00 g/L
Resolution		0.001 g/L or 0.01 g/L (according to range)
Ambient temperature		0 ~ 50°C
Storage temperature		-20 ~ 70°C
Display		Back-lit LCD display with auto-sense ON/OFF/Auto illumination
Analog output		Isolated DC 0/4~20mA corresponding to measurement, max. load 500Ω
Serial interface		RS-485(MODBUS RTU or ASCII)
Setting	Contact	240VAC, 0.5A Max. (recommend)
	Active	Two sets Hi/Lo programmable, ON/OFF
Wash	Contact	240VAC, 0.5A Max. (recommend)
	Active	ON: 0 ~ 9999 sec. / OFF: 0.0 ~ 999.9 hours
Voltage output		DC±24V
Power supply		100V ~ 240VAC±10% ~ 50/60Hz
Installation		Wall or Pipe or Panel mounting
Dimensions		144 mm × 144 mm × 115 mm (H × W × D)
Cut off dimensions		138 mm × 138 mm (H×W)
Weight		0.8Kg
Protection		IP 65 (NEMA 4X)
Sensor Model No.		TS-MxS-A
Sensor measuring range		0.000-50.00(g/L) (0~50,000mg/L standard substance: Kaolin)
Sensor cleaning system		Automatic wiper cleaning system
Time interval for cleaning		1~9 min, user selectable / Default 10 min
Ambient temperature of sensor		0-40°C
Wet part of sensor		SUS 316L,Sapphire glass, Fluorocarbon rubber, EPDM, PVC(cable)
Sensor dimensions		approx.Ø48x146mm (excluding hanging attachment)
Sensor weight		approx. 1.1kg
Protection of sensor		IP 68, maximum depth of 2 meters (underwater type)
Cable length of sensor		9m
Accuracy		±3% of full scale
Repeatability		±2% of full scale
Sensor installation		Immersion in open tank

* The specifications and appearance of the instrument are subject to change without notice.

Accessory: Panel Mounting clip kit, Plastic L-shaped sensor holder support base

Optional accessories:

1. MLSS sensor with 9M cable
2. Immersive protection holder
3. Stainless holder support base
4. Sun shield for wall or pipe mounting



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