

FLS M9.36

pH/ORP Monitor and Transmitter



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The FLS M9.36 is designed for industrial applications requiring precise and reliable pH and ORP measurements. The large 4" graphic display with high-brightness backlight ensures clear reading of values even from a distance, providing complete information on measurement status. Calibration with automatic buffer recognition and in-line adjustment guarantees accuracy under all operating conditions. The 4-20 mA analog output enables data transmission to remote systems for safe and continuous process control.

PH/ORP MONITOR AND TRANSMITTER

APPLICATIONS

- Water treatment and regeneration
- Industrial wastewater treatment and recovery
- Scrubber control
- Neutralisation systems
- Heavy metal recovery
- Coating of metal surfaces
- Processing and manufacturing industry
- Chemical production
- Swimming pools and spas

MAIN CHARACTERISTICS

- Large display with backlight
- Automatic recognition of buffers for pH

TECHNICAL DATA

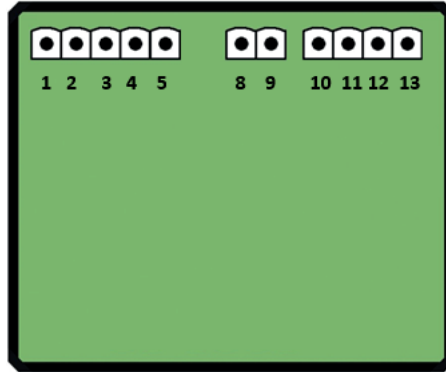
General information	Compatible sensors: pH/ORP electrodes and temperature sensors
	Materials: – Case: ABS – Display: PC – Panel and wall gasket: silicone rubber – 5-button keyboard: silicone rubber
	Display: – Transflective technology – Update rate: 1 second – Protection class: IP65 front
	pH input range: -2÷16 pH (depending on the pH electrode applied)
	pH measurement resolution: ±0.01 pH
	ORP input range: -2000÷2000 mV (depending on the ORP probe applied)
	ORP measurement resolution: ±1 mV
	Temperature input range: 0÷-100 °C (32÷212 °F) (with Pt100-Pt1000)
	Temperature measurement resolution: 0.1°C/°F (Pt1000); 0.5°C/°F (Pt100)
	Supply voltage: from 12 to 24 VDC ±10% regulated
Electrical data	Max electrical consumption: < 300 mA
	current output: – 4-20 mA, isolated, fully adjustable and reversible – Max loop impedance: 800 Ω @ 24 VDC - 250 Ω @ 12 VDC
Environmental data	Operating temperature: from -10 °C to 70 °C (from 14°F to 158 °F)
	Storage temperature: from -30°C to +80°C (from -22°F to +176°F)
	Relative humidity: from 0 to 95% not condensing

Standards & Approvals

Manufactured under ISO 9001
Manufactured under ISO 14001
CE
RoHS Compliance
EAC

ELECTRICAL CONNECTIONS

Rear view of electrical connections



1	- Vdc	Power Supply
2	+ Vdc	
3	Earth	
4	- LOOP	Analog Output
5	+LOOP	
8	+IN	pH/ORP Input
9		
10	REF pH	PT100 - PT1000
11		
12		
13		

PRODUCT CODES



M9.36.P1 - M9.36.WX
pH/ORP Monitor and Transmitter

Code	Mounting	Power supply	wires power Technology	Sensor Input	Output	Weight (gr.)
M9.36.P1	Panel	12 - 24 VDC	3/4 wires	pH/ORP Temperature	1 (4-20mA)	550
M9.36.W1	Wall	12 - 24 VDC	3/4 wires	pH/ORP Temperature	1 (4-20mA)	650
M9.36.W2	Wall	110 - 230 VAC	3/4 wires	pH/ORP Temperature	1 (4-20mA)	750