

# Multi-Parameter Process Analytical Transmitter

The OCM44 is a versatile, high-precision process analytics transmitter designed for industrial applications and boasts a comprehensive array of features designed to enhance process control and monitoring. This multi-parameter device supports up to eight sensors, enabling simultaneous measurement of various parameters such as pH, ORP, conductivity, dissolved oxygen, disinfection through digital Memosens technology. With plug and play capability which includes automatic sensor recognition and calibration data storage, the OCM44 enhances both measurement accuracy and sensor management.

It is equipped with a clear, high-resolution display and intuitive user interface, facilitating easy operation and data interpretation. Advanced diagnostics and predictive maintenance capabilities help ensure reliable performance and reduce downtime and transmitter's modular design allows for flexible configuration and seamless integration into existing systems.

The OCM44 is available in a NEMA 4 enclosure for field mounting or a DIN rail mount package for integration into control panels and other enclosures. An optional display panel is available for the DIN rail mount package.

Three basic I/O configurations are available. Two have fixed configuration for 2 sensors, 2 analog outputs and either relay (2AI) or digital outputs (2AE). The other (2AC) is customizable for additional sensor inputs and I/O to suit specific application requirements.



## General Specifications

		Expandable TX (2AC)*	Non-Expandable TX	
			DOut (2AE)	Relay (2AI)
Discrete and Sensor I/O*	Memosens Sensor Input	2 (Option up to 8)	2	2
	Analog Input	0 (Option up to 2)	0	0
	Digital Input	2 (Option up to 4)	2	2
	Analog Output	2 (Option up to 8)	2	2
	Digital Output (Open Collector)	2 (Option up to 4)	2	0
	Alarm/Status Relay	1	1	1
	Relay Output	0 (Option up to 4)	0	2
Digital Communications Options		HART Modbus RTU Modbus TCP		
Parameters		pH / ORP Dissolved Oxygen Conductivity Disinfection (Free Chlorine, ClO <sub>2</sub> , Free Bromine)		
Enclosure/ Housing Rating	Field Mount	NEMA 4 IP66/67		
	DIN Rail Mount	IP20 (Optional Display IP66)		
Dimensions	Field Mount	237 x 194 x 162 mm / 9.33 x 7.64 x 6.38"		
	DIN Rail Mount	220 x 100 x 97 mm 8.66 x 3.94 x 3.82"	99 x 100 x 97 mm 3.9 x 3.94 x 3.82"	
Power Supply Options		100 to 230 V AC, 50/60 Hz ±15% 24 V DC +20/-15%		
Cable Entries (NEMA 4 Unit)		¾" and ½" NPT		
Operating Temp. Range	Field Mount	-20 to 55°C / 0 to 130°F		
	DIN Rail Mount	0 to 55°C / 32 to 130°F		

\* There may be some limitations for mix/match depending upon quantity and sensor type

## Benefits

- **Multi-parameter Measurement:** Supports up to eight channels for simultaneous monitoring of pH, ORP, conductivity, dissolved oxygen, and various disinfection parameters.
- **Memosens Technology:** Enhanced measurement accuracy and sensor management with automatic sensor recognition and calibration data storage.
- **High-resolution Display:** Clear, high-resolution display.
- **User-friendly Interface:** Intuitive navigation and operation for efficient use.
- **Modular Design:** Flexible configuration with future expansion capability.
- **Advanced Diagnostics:** Predictive maintenance capabilities to ensure reliable performance and reduce downtime.

## Applications

- **Water Treatment:** Monitoring pH and other parameters in drinking water and wastewater treatment processes.
- **Chemical Processing:** Controlling chemical reactions and ensuring product quality by measuring pH, ORP, and conductivity.
- **Food and Beverage:** Ensuring product consistency and safety by monitoring pH levels in various stages of production.
- **BioPharma/Pharma:** Maintaining precise pH and conductivity levels in drug manufacturing and quality control processes.
- **Pulp and Paper:** Monitoring pulping, bleaching, and paper manufacturing processes.
- **Power Plants:** Measuring pH and conductivity in boiler feedwater and cooling water systems to prevent corrosion and scaling.
- **Environmental Monitoring:** Tracking water quality parameters in rivers, lakes, and groundwater for environmental protection.
- **Mining:** Monitoring pH and other chemical parameters in leaching processes and wastewater treatment.
- **Brewing:** Ensuring optimal fermentation conditions and product quality.

## Related Equipment and Accessories

### DIN Rail Mount Unit

- Remote Display Panel
- Portable Service Display

### Field Mount Unit

- Post Mounting Kit
- Sun Shade

Contact us for details



*DIN Rail Mount Version*