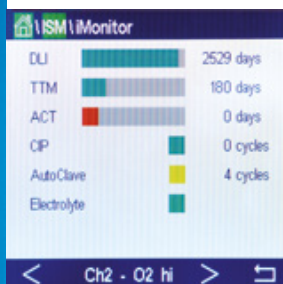# Powerful and Flexible Transmitter

Touch the Future

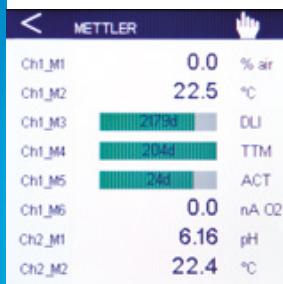### Intelligent diagnostics utility

– Unique iMonitor™ function
– Intelligent diagnostics with traffic light indication of sensor status
– Predictive maintenance using ISM technology

Intuitive touchscreen control

– State-of-the-art user interface
– Large color display
– Simple and self-explaining operation

Information at a glance

– Simultaneous display of one to four measurement points
– Configurable display
– Setup of "Favorites" menu to directly access frequently used menus

Flexible configuration

– Multi-parameter transmitter
– Mixed-mode (M800 1-channel) input to use analog or ISM sensors
– Multi-channel device reduces the cost per measurement

ISM® c **UL** US LISTED **PROFINET** **EtherNet/IP**

M800 Process Transmitter
Complete Control at Your Fingertips

The M800 multi-parameter transmitter provides simultaneous monitoring of one, two or four in-line sensors for measurement of pH/ORP, optical DO, amperometric oxygen (DO as well as O_2 gas), conductivity, CO_2 and turbidity in process applications.

The Profinet™ and Ethernet/IP™ interfaces provide easy integration of sensor diagnostics tools into process control systems, reduce commissioning time and engineering support, and save integration efforts and costs. Digital communication within the loop, plus real-time measurements and sensor diagnostic, provides greater process reliability and lowers maintenance costs.

Intelligent Sensor Management (ISM®) features in the M800 include Plug and Measure for fast sensor installation and start up, predictive maintenance information and dynamic sensor lifetime status. The M800 line is available also in a hygienic version with stainless steel housing.

▶ **www.mt.com/M800**

METTLER TOLEDO

Technical data of the M800 Process 1-channel, 2-channel and 4-channel transmitter series

Designation		M800 1-channel	M800 2-channel	M800 4-channel	M800 Profinet and Ethernet/IP 1-/2-channel
Measurement parameters					
	pH/ORP	•	•	•	•
	Dissolved and gaseous oxygen	•	•	•	•
	Dissolved CO_2	•	•	•	•
	Conductivity	•	•	•	•
	Turbidity	•	–	–	•*
Approval	Stainless steel	CE/UL	CE/UL	CE/UL	–
	Polycarbonate	CE	FM Cl.1 Div 2, UL	FM Cl.1 Div 2, UL	CE/UL
Current outputs (galvanically isolated)		4 × 0/4 to 20 mA	8 × 0/4 to 20 mA	8 × 0/4 to 20 mA	1 × 0/4 to 20 mA (for M800 Ethernet/IP 1-/2-ch) None (for M800 Profinet 1-/2-ch)
Digital inputs		4	5	6	5
Sensor type		Mixed-mode (analog, ISM)	ISM	ISM	ISM
ISM features		Plug and Measure, advanced diagnostic tools (DLI, ACT, TTM), iMonitor			
Power		AC (100–240 V) or DC (20–30 V)			
Enclosure	Stainless steel	½ DIN, IP 66	½ DIN, IP 66	½ DIN, IP 66	–
	Polycarbonate	½ DIN, IP 66	½ DIN, IP 66	½ DIN, IP 66	½ DIN, IP 66
Relays		8	8	8	2
Analog input (galvanically isolated)		1 × 4 to 20 mA (for pressure compensation)			
Multi-level password protection		Yes			
User interface		Color touchscreen, 5.7" TFT, 320 × 240 pixels, 256 colors			
Service interface		USB port			

* Only one turbidity or optical DO sensor can be connected to the transmitter at the same time.

Ordering information

Designation	Order No.
M800 Process 1-channel	30 026 633
M800 Process 2-channel	52 121 813
M800 Process 4-channel	52 121 853
M800 Process 1-channel SST	30 246 551
M800 Process 2-channel SST	30 246 552
M800 Process 4-channel SST	30 246 553
M800 Process 1-channel Profinet	30 530 021
M800 Process 2-channel Profinet	30 530 022
M800 Process 1-channel EtherNet/IP	30 530 023
M800 Process 2-channel EtherNet/IP	30 530 024

▶ **www.mt.com/M800**

ISM and iMonitor are trademarks of the METTLER TOLEDO Group.
All other trademarks are the property of their respective owners.