

### INGOLD

Leading Process Analytics

### M 700 transmitter for:

- pH / ORP
- Dissolved oxygen (DO)
- Conductivity

### **Benefits:**

- Three selectable modules
- User-configurable parameter combinations
- Specific application software options

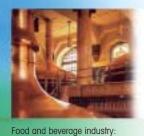
# High-performance transmitter M 700 – for flexible, multi-parameter process control.



## The modular solution for all applications.

With the M 700 transmitter, METTLER TOLEDO, a leading supplier for process analytics measurement solutions, offers a unique system configurable to your individual application.

### Benefits at one glance



M 700S stainless steel transmitter

for hygienic production.

Cost savings through modularity

Unlimited communication

Application oriented

ded data storage is possible with the SMARTMEDIA™ card capability which

The modular concept allows integration of up to three modules into one basic

adapt easily to new market or application requirements.

allows transfer of your data to a personal computer.

instrument. Double channel measurement reduces total costs per measuring loop typical for fermentation processes (pH/DO) or redundant measurement in chemical processes (pH/pH). The flexible hardware and software concept allows you to

The M 700 has no communication limitations. Modules for PROFIBUS® PA and

extended output modules fully integrate the M 700 into all control systems. Exten-

Enclosure designs are available for all application areas / environments:

The polished stainless steel version is designed for hygienic applications in the pharmaceutical industry, in biotechnology, as well as in the food and beverage industry.

Two coated stainless steel enclosures are designed for applications in harsh environments, such as the chemical-, and pulp and paper industry for hazardous and non-hazardous areas.



harsh environment.

Chemical industry: M 700 C coated transmitter for



Pharmaceutical industry: M 700S for hygienic environment and optional software supporting FDA 21 CFR Part 11 compliance.

# M 700 – A huge variety of combinations.

Define your own measuring package – here some possible examples for your application:

	Food & beverage		Chemical industry		Pharmaceutical industry		
Application requirement (examples)	<ul> <li>Hygienic design</li> <li>Splash proof (IP65)</li> <li>PROFIBUS<sup>®</sup> PA</li> </ul>		<ul> <li>Harsh environment</li> <li>Hazardous area</li> <li>Splash proof (IP65)</li> </ul>		<ul> <li>Hygienic design</li> <li>FDA 21 CFR Part 11 compliant</li> <li>Output</li> </ul>		
Transmitter enclosure		M 700 S Stainless steel polished		M 700XC Coated, Ex proof		M 700 S Stainless steel polished	
Measuring modules		DO		pH Ex		рН	
		DO ppb		Cond Ind Ex	2.4	DO	
Communication module		Profibus® Pa		PID Ex (control)		OUT (output)	
Optional software	<ul> <li>Measuring recorder</li> <li>Extended logbook</li> <li>Tolerance band recorder</li> </ul>		<ul> <li>Concentration table</li> <li>Parameter sets</li> <li>Measuring recorder</li> <li>Adaptive calibration timer</li> </ul>		Extended Io     FDA 21 CFF	<ul> <li>Parameter sets</li> <li>Extended logbook</li> <li>FDA 21 CFR Part 11 compliance support</li> </ul>	

For other suggested packages ask for the technical data or consult your METTLER TOLEDO sales representative.

## Unique plug-and-play concept.

### Plug & play

Place the modules into the M 700 enclosure and the system is ready for measurement.



### Easy operation enhances process safety.

The well arranged and extremely user friendly keypad and the bright and back lit display are designed for easy operation and read out of measuring data. Sensor and transmitter diagnostics, several alarm and asset management functions also ensure the highest possible process safety. This intuitively designed user interface makes every operator's job easier and more productive.

7.00 pH 99 mStom	Display	The bright and back lit LC display indicates four measuring values at one glance. The primary and secondary measurement values in large and easy readable figures on the top and the secondary displays on the bottom are user-configurable.
	Menu	The four navigation buttons and user-friendly, well-arranged icons allow easy set up and configuration. Three level password protection for calibration, maintenance and configuration guarantees the highest level of process safety.
	Diagnostics	On-line sensor diagram reduces downtime with the unique sensor diagnostic tool. The unique network diagram displays all relevant information about the condition of the sensor and alerts the user in advance of required sensor replacement or maintenance.

# M 700 – a versatile, highly flexible system.

# The modular M 700 measuring system provides flexible solutions precisely tuned to the measuring task.

- Three user-selectable slots for measuring and communication modules.
- Freely selectable software functions to increase safety, performance and diagnostics.



### Your benefits:

- Flexibility of the system allows you to adapt the transmitter for new applications.
- Easily configurable for any liquid analytical application.
- Extended diagnostics assure top performance.
- Improve your local process integrity with enhanced software information tools.
- Multi-channel measurement saves costs (hardware, installation).

### The flexible system makes the difference...

METTLER TOLEDO offers a wide range of technological measurement solutions for the area of industrial Process Analytics:

- A complete range of electrodes/sensors for pH/ORP, DO, conductivity, turbidity and CO<sub>2</sub> measurements.
- A wide variety of static and retractable housings, cables and dedicated accessories as well as auxiliary systems such as automatic sensor cleaning and calibration devices.
- A comprehensive line of transmitters to meet your most demanding requirements, including compatibility with sophisticated, modern communication and automation systems.



#### Professional service and support is always close at hand

Our professional worldwide distribution and service network provides you with the best possible technical and application support, ranging from consulting through to trouble-shooting.



### Ordering information for the M 700 transmitters:

**Transmitters** «Value Line»

«Advanced Line»

«Premium Line»

Value sensors

Advanced sensors

Premium sensors

Technical data sheet (TD) with detailed product information and product order numbers order no. 52 121 232 or contact your METTLER TOLEDO sales representative

#### Documentation material for products and systems (available in English, German and French):







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#### Turbidity

 $0_2/D0$ 

- Low to medium turbidity
- Medium to high turbidity

#### Housings

- For Ø 12 mm
- electrodes/sensors For liquid electrolyte
- electrodes InTrac<sup>®</sup> Series





### pH/ORP

- Gel/polymer electrodes .
- Liquid electrodes •
- Non-glass electrodes
- Polymer body electrodes •

### Conductivity

- Value sensors
- 2/4-electrode sensors
- Inductive sensors



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 In-situ measurement for in-line fermentation control

#### **Cleaning & calibration** systems

EasyClean family

### Sales and service:

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