

Inductive Conductivity

INGOLD

Leading Process Analytics



InPro 7250 Series

Attractive price/performance ratio

Highest measurement accuracy

Rugged design for harsh applications

Wide temperature range

Inductive Conductivity Measurement Reliability in Harsh Environments

METTLER TOLEDO

Reliable Operation For a Wide Range of Applications

The InPro 7250 series of inductive conductivity sensors from METTLER TOLEDO is designed for in-line measurements of conductivity/concentration in processes. Main fields of application are in the chemical and petrochemical industry, pulp and paper processes, as well as monitoring industrial effluents.

Enhanced process control

Thanks to their robust design and high chemical resistance, inductive conductivity sensors provide the ideal solution to in-line chemical concentration control in harsh environments. Even the dilution of concentrated strong acids can be controlled accurately, fast and economically.

Wide coverage of application conditions

In processes where the concentration of caustic is critical to product quality and yield, inductive conductivity measurement allows reliable process control, even at high temperatures.

Virtually maintenance free

Despite sophisticated chemical treatment programs scaling and fouling of organic nature are com-

mon in cooling water systems.

Insensitive to fouling, inductive conductivity sensors definitely are a best-practice choice of instrumentation.

Higher production uptime

Where high levels of fibres tend to incapacitate conventional electrodes in textile and pulp and paper processes, inductive conductivity sensors maintain maximum performance.

Industrial wastewater: Monitoring effluents

Continuous monitoring of industrial effluents is a critical factor not only for ecological reasons but also for economic plant operation. Since inductive conductivity sensors are not susceptible to fouling, they are particularly well suited for applications in this field.



Chemical



Petrochemical



Pulp & Paper



Industrial wastewater

Large Spectrum of Possibilities Few Choices

The compact INGOLD inductive conductivity portfolio covers a wide range of applications, and delivers outstanding performance for the most demanding process conditions.

The METTLER TOLEDO inductive conductivity sensors consist of two high precision coils hermetically sealed in a robust and chemically resistant polymer matrix.

The high temperature (HT) version of the InPro 7250 is designed for operation at a maximum temperature of 180 °C (356 °F). It retains its full performance at high temperature and high pressures, making it the perfect problem-solver for a wide range of application conditions.

The PFA version of the InPro 7250 is specially designed for operation in concentrated strong acids (oleum).

Your benefits

- Wide measurement range**
 Efficient process control due to high linearity from 0 up to 2000 mS/cm.
- Broad range of applications**
 From wastewater and utilities applications to high-temperature or extremely aggressive process conditions.
- Reduced fouling**
 The inductive measurement principle features fully embedded sensing elements with little to none influence from process conditions.



Transmitter CondInd 7100 e



PEEK

PFA

Key technical data for the InPro 7250 series

	7250 ST	7250 HT	7250 PFA
Measuring range	0 ... 2000 mS/cm	0 ... 2000 mS/cm	0 ... 2000 mS/cm
Process temperature			
– outside Ex range	–20 ... +100 °C (–4 ... 212 °F)	–20 ... +180 °C (–4 ... 356 °F)	–20 ... +125 °C (–4 ... 257 °F)
– within Ex range	–	–20 ... +130 °C (–4 ... 266 °F)	–20 ... +125 °C (–4 ... 257 °F)
Process pressure	max. 8 bar (max. 116 psi)	max. 20 bar (max. 290 psi)	max. 16 bar (max. 232 psi)
Sensor materials (medium wetted)	PEEK glass filled (GF30)	PEEK glass filled (GF30)	PFA
ATEX	–	•	•
FM	–	•	•

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