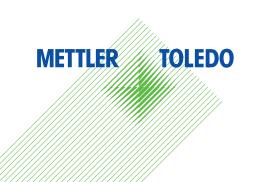


# **Inductive Conductivity Measurement**

Reliability in Harsh Environments



### **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: Monitorina 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



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 7100e



#### Key technical data for the InPro 7250 series

|                                  | 7250 ST                   | 7250 HT                    | 7250 PFA                 |
|----------------------------------|---------------------------|----------------------------|--------------------------|
| Measuring range                  | 02000 mS/cm               | 02000mS/cm                 | 02000 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. 16bar (max. 232psi) |
| Sensor materials (medium wetted) | PEEK glass filled (GF30)  | PEEK glass filled (GF30)   | PFA                      |
| ATEX                             | _                         | •                          | •                        |
| FM                               | _                         | •                          | •                        |

### **Get On-line Support**

via www.mt.com/pro

Visit our website at any time for fast and competent information. The very latest, updated product and support documentation is available in many different languages.

# Support center with easy and free download

- Declaration of conformity
- Certificates
- Description of equipment
- User manuals/data sheets



Visit our website for fast and competent information.

# Find and download product and application documents

- Product News
- Industry Newsletters
- Application News

#### **Country-specific information**

 Select country/area to get access to your local support

#### **Search functionality**

 Enter keyword to find requested information

#### For on-line access click on

- Contact us
- Request more information
- Get a quote

www.mt.com/pro

Visit for more information

Sales and service:





Management System certified according to ISO 9001 / ISO 14001

Mettler-Toledo AG

Process Analytics CH-8902 Urdorf, Switzerland Phone +41 44 729 62 11 Fax +41 44 729 66 36

Subject to technical changes.
© 10/2008 Mettler-Toledo AG.
Printed in Switzerland. 52 900 794