

MT Service

INGOLD

Leading Process Analytics

THORNTON

Leading Pure Water Analytics



A Partner You Can Trust
to Get It Right from the Start

METTLER TOLEDO

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Service for Process Analytics

Seven Reasons to Choose METTLER TOLEDO

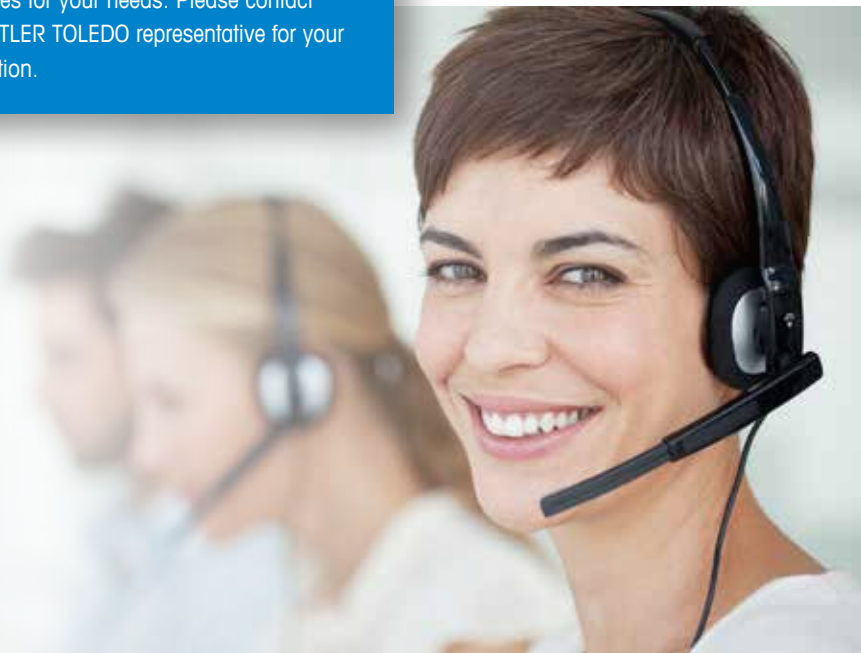
Customer service at METTLER TOLEDO strives to provide our customers with added value whenever possible, including professional product service as well as leading edge technical support.

When you purchase products from METTLER TOLEDO you have the satisfaction of relying on proven products in your process and having a world class service organization standing behind them.

Our customers benefit from

- Regulatory compliance
- Improved productivity and enhanced competitiveness
- Quicker repairs and calibration
- Reliable, professional, efficient service
- Fast response time
- Greater system "uptime"
- Innovative and leading edge support services

METTLER TOLEDO offers comprehensive tailored service packages for your needs. Please contact your local METTLER TOLEDO representative for your individual solution.



7000RMS Analyzer Services

Maintain Accuracy and Compliance

Ensure world class performance in measuring bioburden. Maintain compliance to industry regulations and critical quality standards with METTLER TOLEDO 7000RMS Analyzer Services.

Performance Verification

- Ensures performance as specified with
 - Flow rate verification
 - Calibration verification
 - Analog output verification
- Recommended every 6 months

Calibration

- Ensures accuracy of the three measurement attributes of laser, thresholds and flow.
- Ensures accuracy with:
 - Laser peak voltage data reading
 - Laser power adjustment
 - Threshold calibration and adjustment
 - Flow calibration and adjustment
 - As-left data
- Recommended every 12 months

Comprehensive Qualification

- Documents the activities required to ensure delivery, installation, functionality and performance meets specifications.
- Meets USP <1058> Guidelines with:
 - Installation qualification
 - Operational qualification
 - Performance qualification
- Recommended upon installation and on demand



Conductivity Sensor Calibrations

Maintain Accuracy and Compliance

Maintain accurate measurement of your process and compliance to industry regulations and critical quality standards with METTLER TOLEDO Conductivity Sensor Calibrations.

Calibrate Conductivity Sensor, 2E

- Calibration of cell constant and temperature for 0.1 cm⁻¹ and 0.01 cm⁻¹ sensors.
- Calibration that meets USP <645> Water Conductivity requirements.

Calibrate Conductivity Sensor, High Conductivity

- Calibration of cell constant and temperature for sensors measuring high conductivity solutions 10 μS/cm - 1 S/cm.
- Calibration that meets USP <1644> Theory and Practice of Electrical Conductivity Measurements of Solutions.

Calibrate Conductivity Sensor, UniCond

- Calibration of measurement electronics plus the cell constant and temperature for UniCond 0.1 cm⁻¹ and 0.01 cm⁻¹ sensors.
- Calibration that meets USP <645> Water Conductivity requirements.

Calibrate Conductivity System

- Ensures accurate performance of the total measurement loop by calibrating your sensor, transmitter and calibrator as an integrated system.
- ±1% cell constant and system accuracy at 18.2 Ω-cm at 25°C; As-Found As-Left data; Certification of temp., resistivity, and cell constant measurement
- A variety of other conductivity system calibrations are available. Visit www.mt.com/pro-service and click "Request Info" to learn more.



GPro 500 Setup and Configuration Maximum Benefits from Day One

Ensure your new sensors and connections are configured to your specific application for performance and reliability from the start.

Setup Custom Configuration

- Verification of proper installation point conditions
- Installation and configuration of the sensor
- Record of back-up settings



Ozone Sensor Calibration Maintain Accuracy and High Performance

Maintain accurate measurement of your process and compliance to industry regulations and critical quality standards with METTLER TOLEDO Ozone Sensor Calibration.

Calibrate Ozone Sensor

- Polarization of ozone sensors in a loop of ozonated water at ~300ppb. Calibration is performed with a colorimeter.
- Specialized Service Tools used by METTLER TOLEDO trained personnel provide fast, accurate, on site polarization and calibration of your ozone sensors.



Additional Service products may be available in your country. Visit www.mt.com/pro-service for details.

Sensor Housings

Achieve Optimal Uptime and Performance

Ensure your Sensor Housings are maintained with expert services by METTLER TOLEDO for a productive start and long life.

Basic Preventive Maintenance

- Provides a visual inspection and replacement of critical components to ensure reliable performance.
- Ensures reliable performance with:
 - Visual inspection
 - Replace basic O-rings
- Recommended every 3 to 6 months depending on application

Full Preventive Maintenance

- Provides replacement of critical components and multiple function tests to maximize performance, longevity, and uptime.
- Achieves optimal uptime and performance with:
 - Visual inspection
 - Replace all O-rings
 - Inspect guide-tube and replace if needed
 - Replace locking pin
 - Check and adjust alignment if needed
 - Complete pressure test
- Recommended every 1 to 2 years depending on application

Customize Equipment

- Provides the configuration you want to maximize value to your process.
- Achieve maximum performance with:
 - Custom configuration
 - Replace all O-rings
 - Inspect locking pin
 - Check and adjust alignment if needed
 - Complete pressure test



Silica Analyzer Service Products

Achieve Optimal Uptime and Performance

Ensure your Silica Analyzers are configured and maintained with expert services by METTLER TOLEDO for a productive start and long life.

Setup Standard Configuration

- Assurance that your analyzer is configured according to the highest manufacturer's standards for top performance and reliability through
 - Verification of proper installation
 - Initial setup, configuration, and calibration
 - Brief operational overview for operator

Full Preventive Maintenance

- Replacement of critical components and a full calibration to maximize measurement accuracy and productive uptime through
 - Visual inspection
 - Operational tests
 - Refill solutions/reagents
 - Replace minor wearable parts
 - Accuracy verification cal/check



Sodium Analyzer Service Products

Achieve Optimal Uptime and Performance

Ensure your Sodium Analyzers are configured and maintained with expert services by METTLER TOLEDO for a productive start and long life.

Setup Standard Configuration

- Assurance that your analyzer is configured according to the highest manufacturer's standards for top performance and reliability through
 - Verification of proper installation
 - Initial setup, configuration, and calibration
 - Brief operational overview for operator

Basic Preventive Maintenance

- Replacement of wearable parts and a calibration to ensure accurate and reliable measurement through
 - Inspection
 - Maintenance / calibration of electrodes
 - Replace minor wearable parts
 - Refill solutions
 - Auto calibration
 - Accuracy verification cal/check

Full Preventive Maintenance

- Replacement of critical components and a full calibration to maximize measurement accuracy and productive uptime through
 - Inspection
 - New Na and pH electrodes
 - Calibrate electrodes
 - Replace minor wearable parts
 - Refill solutions
 - Auto calibration
 - Accuracy verification cal/check



TOC Sensor Services

Maximize Accuracy, Productivity and ROI

Ensure accurate TOC measurement in your process. Get the highest possible uptime and performance through preventive maintenance services, calibrations, and system suitability tests.

Basic Preventive Maintenance

- Replacement of critical components and calibration to ensure accurate and reliable measurement through
 - Visual inspection
 - Replace UV lamp
 - Replace filter
 - TOC calibration
- Recommended every 6 months or 4,500 hours

Full Preventive Maintenance

- Replacement of critical components and a full calibration to maximize measurement accuracy and productive uptime through
 - Visual inspection
 - Replace UV lamp
 - Replace filter
 - Full calibration of TOC, conductivity, temperature and flow rate
- Recommended every 12 months

TOC Calibration

- Accurate measurement of your TOC Sensor through calibration with TOC standard solutions of known concentration.
- May be executed with standard or extended range solutions.
- Recommended upon change of the UV lamp or at least every 12 months

System Suitability Test

- Calculation of response efficiency
- Evidence that system performance is adequate for TOC analysis and meets compliance regulations
- Recommended with a Full PM, with a Basic PM for Pharmaceutical production, and as desired for operational needs

Additional Service products may be available in your country. Visit www.mt.com/pro-service for details.

Comprehensive Qualification

- Documents the activities required to ensure correct delivery, installation and functionality performance in the environment according to specifications.
- Meet regulatory compliance with:
 - Installation qualification
 - Operational qualification
- Recommended upon installation and on demand



Analog & Digital Transmitter Calibrations High Performance Measurement

METTLER TOLEDO Services ensure accurate measurement in your process. Obtain the highest accuracy, compliance, and performance through transmitter services for analog and digital instruments.

Calibrate Transmitter, Analog

- Calibration of resistance, temperature, voltage, and frequency (as applicable to model)
- As-Found and As-Left data
- Traceability
- Calibration meets USP <645> Water Conductivity requirements.

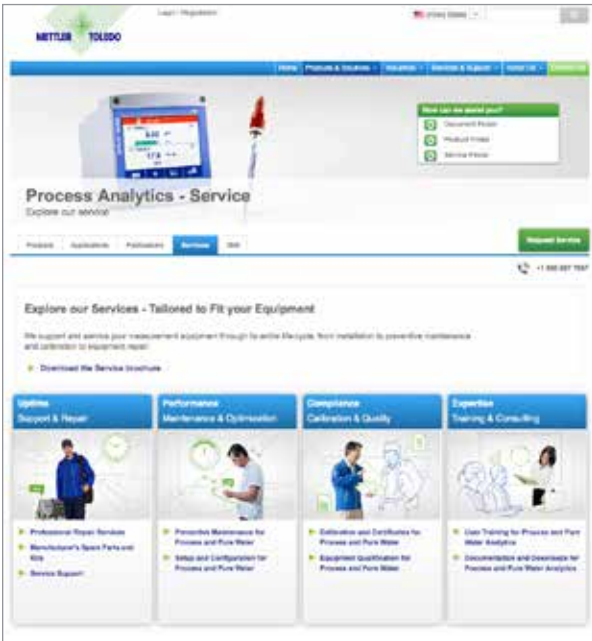
Calibrate Transmitter, Digital

- Calibration of analog outputs
- Relay function test
- Verification of conductivity communication
- As-Found and As-Left data
- Traceability



Be Ready with METTLER TOLEDO Service

Accuracy, compliance and high performance is just a click away! Visit www.mt.com/pro-service today and click the green button to "Request Service". A local METTLER TOLEDO representative will be happy to assist you.



www.mt.com/pro-service

For more information

Mettler-Toledo GmbH
Process Analytics
Im Hackacker 15
CH-8902 Urdorf
Switzerland
U.S. +1 781 301 8694
Switzerland +41 44 729 6666

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