

Micro Motion Tantalum Coriolis Flow Meter Portfolio

Compact, low frequency, high accuracy fit-and-forget meters provide robust measurements even under demanding process conditions.



Fit-and-Forget Solution for Corrosive Applications

Handling corrosive fluids, such as acids and bases, requires robust equipment designed to meet the challenge. The TA-Series Coriolis Flow and Density meters have wetted materials constructed with pure tantalum, making them suited to meet the challenging demands of such highly corrosive fluids. With multiple line sizes available, the TA-Series provides an ideal platform for batching, distribution, allocation and intra-plant measurement applications.

The TA-Series provide precision flow measurement for over 100 corrosive process fluids: See [Emerson's Corrosion Guide](#) for more information.



Micro Motion Tantalum Series Coriolis Flow Meter ensures the safety and efficiency of your plant while lowering costs

Sold Exclusively with the Micro Motion™ 5700 Transmitter

- The Micro Motion 5700 transmitter is available as a remote mount with aluminum or stainless steel housing
- Smart Meter Verification™ checks the structural integrity of the sensor tubes, electronics, and calibration without interrupting the process to confirm that the meter is working properly



Smart Meter Verification is included with the Micro Motion 5700 transmitter enabling your plant to continue their Digital Transformation by giving you continuous valuable insight into your processes.

For more information, visit [Emerson.com/MicroMotionTantalum](https://www.emerson.com/MicroMotionTantalum) or contact your local Emerson Sales Representative



Dilution and Concentration Applications

Customer Goals

- Guarantee the highest quality product through the mixing processes
- Large scale mixing requires repeatable and reliable measurements
- Reduce maintenance downtime that can interrupt production and reduce ROI

Tantalum Series Available Line Sizes

Model	Line Size		Nominal Flow Rate (kg/h)
TA010T	0.10 in	DN6	325
TA025T	0.25 in	DN8	1,130
TA050T	0.50 in	DN15	3,000
TA075T	0.75 in	DN20	5,200
TA100T	1.00 in	DN25	13,700
TA200T	2.00 in	DN50	30,000
TA300T	3.00 in	DN80	80,000

How Micro Motion Tantalum Series Flow Meter Can Help

1. The Tantalum portfolio metallurgy provides chemically resistant, high accuracy density measurement for acid dilution and concentration measurement
2. Micro Motion Tantalum meters eliminate the need for manual sampling of percent concentration measurement for corrosive acids, ensuring greater efficiency and cost control while keeping personnel safe
3. Automating the process allows for the final product solution to be manufactured “just in time”
4. Automated in-line dilution should be considered for new installations and for improvement of existing manufacturing processes



The Tantalum Series technology offers direct mass flow measurement eliminating volumetric to mass correction errors and improving plant mass balance.

Leverage Global Service Capabilities From a Partner You Can Trust

Lifecycle Services

The expertise, technology, and processes to operate safely, improve reliability, and optimize your plant performance.

Educational Services

A wide range of education services to help you train new hires, improve your current workforce skills, and adapt to new technologies.

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Consider It Solved.

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