

Instrument Services

**Measure with Confidence.
Operate with Certainty.**

Flow Meter Services

**Simplify Measurement. Improve Accuracy.
Reduce Complexity.**

Flow Services Overview:

Puffer-Sweiven's year-round flow meter services support accurate flow measurement, diagnostics, and verification.

Brand Agnostic Support – Calibration and verification services across all manufacturers

Smart Meter Verification

- Continuous diagnostic monitoring of flow meter health and performance
- Helps extend calibration intervals and reduce unnecessary removals
- Faster, lower-cost alternative to traditional calibration methods

Simultaneous Multivariable Meter Upgrades

- Single-device measurement of differential pressure, static pressure, and temperature
- Improved measurement accuracy and reliability

Flow Technologies:

- Coriolis Flow Meter
- Turbine Flow Meter
- Vortex Flow Meter
- Magnetic Flow Meter

Operational Benefits:

- Improved process visibility and flow measurement confidence
- Confidence in revenue-critical measurements
- Faster resolution of flow-related performance concerns



Flow Verification Using Live Process Conditions.

Wet Calibration and Verification - In Situ or On-Site:

Puffer-Sweiven's wet calibration and verification services provide confidence that meters are performing accurately.

- **Brand Agnostic Support**
- **Calibration and Verification Services**
- **Flow Trailer Services**
 - Catch-and-Weigh
 - Flow testing using calibrated test meters from 6" down to 3/4"
- **Local Depot Calibrations** remove instruments from site-based scheduling constraints and allows calibration, repairs, and documentation to happen off-site; reducing project maintenance timelines by 6–8 weeks



All testing methodologies are compliant with National Institute of Standards and Testing (NIST) and Traceability.

Measurement Confidence and Performance:

- Improved process visibility and control
- Reduced downtime from measurement issues
- Confidence in critical measurements
- Faster resolution of flow-related performance problems



Accurate Measurement. Faster Decisions. Keep Projects Moving.

Measurement Services Overview:

Puffer-Sweiven's measurement services are designed to deliver instrumentation accuracy, reliability, and compliance throughout the asset lifecycle.

Pressure and Temperature Transmitter Calibrations and Verifications:

Field and depot calibration, verification, and upgrade services ensure accurate, compliant measurement across the lifecycle of critical instrumentation.

- Documented Calibration Records
- Brand Agnostic Support
- Smart Meter Verification
- Simultaneous Multivariable Meter Upgrades



Differential Pressure (DP) Flow Meters:

A proven and repeatable method for flow measurement across a wide range of industrial applications.



Level Instrument Support:

Calibration, verification, and documentation services for all manufacturers of level measurement devices.

Operational Impact:

- One service provider for all measurement devices
- Reduced measurement uncertainty
- Improved regulatory and safety compliance
- Faster commissioning and start-up
- Increased reliability of critical measurement points



Instrumentation Services

Accurate Measurement, Reliable Starts, and Confident Operations

Puffer-Sweiven's Measurement Services are designed to ensure instrumentation accuracy, reliability, and compliance throughout the asset lifecycle—from installation through ongoing operation.

Pressure and Temperature Transmitter Calibrations and Verifications:

Our field and depot calibration and verification to ensure accurate, compliant measurement providing multiple options to address customer specific programs.

Smart Meter Verification

- Real-time visibility into flow measurement accuracy
- Helps identify optimal calibration timing
- Early detection of potential health issues
- Lower-cost, faster alternative to traditional calibration
- Extends calibration intervals



Simultaneous Multivariable Meter

- Multivariable measurement capability enhances operations by measuring static pressure, differential pressure, and temperature in a single device
- 3051S Multivariable transmitter can be paired with multiple products to provide the correct solution
- Increases measurement accuracy
- Eight configurable options that meet a wide range of application requirements



Reduce Startup Risk. Increase Operational Confidence.

STO, Startup and Commissioning Support:

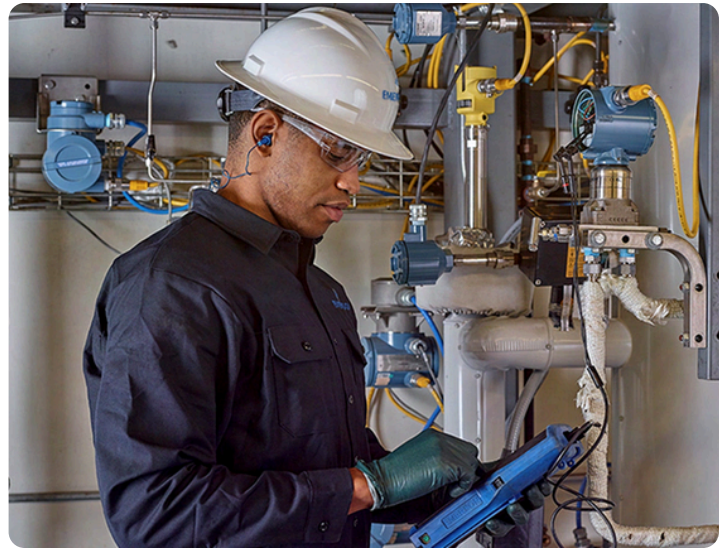
Puffer-Sweiven's field services reduce startup risk and support efficient execution during shutdowns, turnarounds, and outages.

Shutdowns, Turnarounds, and Outages (STOs):

- Instrument Verifications
- Wet Calibrations and Verifications
- Loop Checks
- Loop Tuning
- Instrument Upgrades

Startup and Commissioning Services:

- Instrument Recertifications
- Instrument Troubleshooting
- Loop Checks
- Loop Tuning
- Startup Support
- Instrument Upgrades



Operational Outcomes:

- Faster time to production
- Reduced startup risks and rework
- Improved coordination between project and operations teams
- Reliable handoff from project to steady-state operations

Emerson OEM Certified Expertise Protects Investments.

Emerson Factory Certified Technicians:

Our Factory-certified technicians are trained and authorized by the equipment manufacturer to perform service, calibration, and upgrades according to OEM standards.



Why This Matters:

- **Protects Manufacturer Warranties** – Emerson requires startup and initial calibration to be performed by factory-certified technicians to keep warranties valid. Non-certified work can void coverage.
- **Ensures OEM Approved Procedures** – Certified technicians follow manufacturer defined processes, tools, and documentation requirements – reducing the risk of improper service.
- **Maintains Compliance and Documentation Integrity** – OEM-recognized calibration and service records are often required for audits, quality programs, and regulatory compliance.
- **Reduces Risk and Rework** – Correct work the first time helps avoid startup delays, equipment damage, and warranty disputes.

Non-Emerson Repairs:

Our technicians perform work under NIST Standards which offers our customers quality repairs with quick turnarounds.



Contact Us

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