

ADVANCED METER VERIFICATION

Verify the Performance of Your Non-Intrusive Ultrasonic Flow Meter



Advanced Meter Verification
Predictive maintenance report

Diagnostic values at maintenance

Evaluation interval: 360 d
Maintenance date: 11/11/2021

Diagnostic values		
Amplification	Value	Limits
SNR	160.00 ± 2.31e-111 dB	●
SCNR	150.00 ± 8.05e-121 dB	< 98 dB
Total diagnostics result	145.00 ± 1.01e-111 dB	> 113 dB
	■ Within application range	> 15 dB < 0 dB
		> 30 dB < 20 dB

Estimated diagnostic values at next maintenance

Maintenance interval: 360 d
Next maintenance date: 11/8/2022

Diagnostic values trend			
Amplification	Value	Trend	Time to failure
SNR	160.00 ± 2.31e-111 dB	→	...
SCNR	150.00 ± 8.05e-121 dB	→	...
Total diagnostics result	145.00 ± 1.01e-111 dB	→	...
	■ Within application range	→	...

Meaning of symbols

- Within application range
- Out of application range
- ▼ Still within application range, check for improvements
- ▲ No data available

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3 of 7



Advanced Meter Verification

Advanced Meter Verification (AMV) allows you to check the health of your Emerson Flexim FLUXUS® flow measurements in depth directly at the measurement point without the need of process interruption. This saves cost while ensuring the performance of your non-intrusive flow measurement.

Our proprietary software helps you to ensure that your FLUXUS® measuring system meets your measurement requirements. The continuous acquisition and permanent storage of diagnostic values by the transmitter enables regular verification. Based on this data, maintenance can be planned, and unexpected failures can be avoided.

How it works

Our FluxDiag software provides the possibility to perform the advanced meter verification. Verification after installation of your FLUXUS® confirms that the installation was carried out according to specifications and that the measurement is operating within the specified application limits. Together with the factory calibration of the FLUXUS® flow transmitter and the transducers, this ensures that the specified measurement performance is achieved.

For checking the measuring conditions, the diagnostic data recorded by the transmitter itself are automatically evaluated. The diagnostic data recorded immediately after installation form the reference for regular verification.

In addition to the initial verification statement, a verification performed regularly, e.g., annually, provides an assessment of the change in measurement compared to the initial reference point. Changes in the diagnostic values compared to this reference enable early fault detection. If the changes indicate a need for maintenance, this is clearly indicated in the verification report as well.

Application Versatility

Efficient Onsite Health Check

Cost-saving Measurement Check

Without Process Interruption

Predictive Maintenance

Quality Management

Documentation



Easy and efficient quality assurance

The automatically generated verification report provides the documentation required for your quality management system. All entries and changes to the verification data logger are made in a traceable manner. This serves the use of the report in the context of quality assurance. The data for verification are stored by the transmitter in a protected memory separate from the regular data logger for the entire lifetime of the measuring point.



Advanced Meter Verification - AMV

- Comprehensive onsite meter verification
- Extensive guidance to improve meter installation
- Trend evaluation to detect needs of maintenance and to avoid unpredicted failures
- Optional integration of I/O and loop checks into verification process
- Verification and documentation compliant with ISO9001:2015
- Compatible with Virtual Technician VT
- Remote execution via Ethernet

Requirements

- FluxDiag software (runs on Windows)
- FLUXUS® series x2x or x3x (firmware version 7.42 or later)
- AMV activated in FLUXUS® transmitter

Your Benefits at a Glance

- Savings in maintenance and calibration cost due to efficient onsite meter verification
- Transparent statement regarding the health of your flow measurement
- Predictive maintenance via trend evaluation
- Indication of potential improvement measures
- Documentation for your quality management system



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