



AXF™ Verification Tool

Advanced Option **FieldMate™**

The AXF Verification tool operates in conjunction with Yokogawa's FieldMate Advanced.

The Verification Tool is a simple and reliable way to verify your AXF.



A Reliable Health Check for your AXF

By precise treatment planning and precise examination, your process will get a sense of security with a health expert you can trust.

In line AXF Verification

A typically flowmeter, verification or calibration has to be performed by the supplier or a third party with flow facility. This results in downtime, increased costs and lost revenue. The AXF Verification Tool does not require the unit to be removed from the line. It is designed to help reduce your operating costs and down time.

Standard and Enhanced Verifications available

The AXF Verification Tool is simple versatile software package that checks the operating condition of an AXF. Simply Connect the AXF to FieldMate via the HART modem. Then launch the software. The Software will automatically check the magnetic circuit, excitation circuit and calculation circuit (Standard Verification). If a more detailed check is required, you can add additional verification data with a few simple steps(Enhanced Verification) .

Provide a hard copy report of the results and store the information in a data base

The verification result is stored in the device maintenance information in a sorted database. The verification result can be displayed on a one page report and printed out easily.



USB FieldMate Modem



AXF
Integral Flowmeter



AXF
Remote Flowtube



AXFA 11
Remote Converter



AXFA 14
Remote Converter

Bulletin 01E20R01-01EN

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The Verification Tool produces a Health Report on the condition of your AXF.

| AXF Flowmeter Verification Report | | | | ADMAG AXF | | | |
|---|----------------|---------------------------|----------------------------|------------------------------|------------|--------------------------|--------------|
| Device Type : | AXFA11 | Tag (Converter) : | T1234-5 | Tag (Flowtube) : | T1234-5 | Serial No. (Converter) : | SSK12456 123 |
| Nominal Size : | 100.00 mm | Serial No. (Flowtube) : | SSK12448 123 | Operation Time : | 1D 02:36 | PV Span : | 1 m/s |
| Low Meter Factor : | 0.9867 | High Meter Factor (EDF) : | N/A | Velocity Check : | 1.000 m/s | PV Damping : | 3.0 Sec |
| High Meter Factor : | 0.9867 | Low Meter Factor (EDF) : | N/A | Software Rev. No. : | R1.14 | | |
| Low Meter Factor (EDF) : | N/A | High Meter Factor (EDF) : | N/A | | | | |
| High Meter Factor (EDF) : | N/A | Magnetflow Zero : | 0.000 | | | | |
| Magnetflow Zero : | 0.000 | Software Rev. No. : | R1.14 | | | | |
| Software Rev. No. : | R1.14 | | | | | | |
| EDF: Enhanced Dual Frequency excitation | | | | | | | |
| Standard Verification | | | | | | | |
| Circuit | | | | | | | |
| Verified Item | Result | | Device Status | | | | |
| Test Condition | No Flow + Flow | Passed | Alarm Check | Passed | Passed | | |
| Magnetic Circuit | Passed | Passed | Alarm History | Passed | Passed | | |
| Excitation Circuit | Passed | | Physical Appearance | | | | |
| Calculation Circuit | Passed | | Verified Item | Result | | | |
| Enhanced Verification | | | | | | | |
| Current Output | | | | | | | |
| Setting Value | Measured | Error | Result | Converter | | | |
| 4mA | 4.01 mA | 0.06 % | Passed | Setting Value | Measured | Error | Result |
| 12mA | 11.99 mA | -0.06 % | | 0.0000 m/s | 0.0000 m/s | 0.00 % | Passed |
| 20mA | 20.02 mA | 0.13 % | | 0.2500 m/s | 0.2498 m/s | -0.08 % | |
| | | | | 0.5000 m/s | 0.5001 m/s | 0.02 % | |
| | | | | 0.7500 m/s | 0.7490 m/s | -0.13 % | |
| | | | | 1.0000 m/s | 1.0010 m/s | 0.10 % | |
| Pulse Output | | | | | | | |
| Setting Value | Measured | Error | Result | Insulation Resistance | | | |
| 100pps | 100.0 pps | 0.0 pps | Passed | Verified Item | Measured | Result | |
| | | | | Coil | EX1-C | Open Loop(O.L.) | Passed |
| | | | | Signal(Electrode) | A-C | Open Loop(O.L.) | Passed |
| | | | | | B-C | Open Loop(O.L.) | Passed |
| Overall Status : Passed | | | | | | | |
| This flowmeter was verified to be functioning within ±2.0% of original factory calibration. | | | | | | | |
| Comments : | | | | | | | |
| | | | | | | | |
| Legend symbols : | | | | | | | |
| [---] : Inconclusive | | | | | | | |
| [] : Not performed | | | | | | | |
| Date : 7/12/2012 | | | | | | | |
| Verified by : Taro Yokogawa | | | | | | | |
| Signature : | | | | | | | |

- *1 This software runs on only HART communication protocol.
- *2 Please refer the Bulletin of FieldMate (Bulletin 01R01A01-00E) about the detail of software and hardware operating environment.
- *3 Without having to dismantle the AXF magnetic flowmeter from process line, its healthiness can be verified and this tool provides a certificate in accordance with YOKOGAWA standard. It is essentially an indication of AXF healthiness to support daily maintenance. It differs from actual-flow calibration at the manufacturing plant.

NOTICE

- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

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AXF™ Verification Tool **FieldMate**™ is a registered trademark of Yokogawa Electric Corporation.

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KNOW IN ADVANCE

ACT WITH AGILITY

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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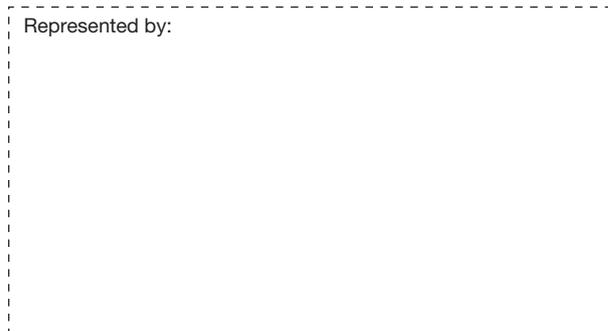
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