

MEASUREMENT AND ANALYTICS

ABB Ability™ Verification for measurement devices — SRV500

Verification made easy



Key challenges faced by industrial operations

Downtime, product quality issues, and unnecessary service visits for measurement devices

Per the ARC Advisory Group:

of annual production lost to downtime and poor product quality



80% of av

of those losses are avoidable

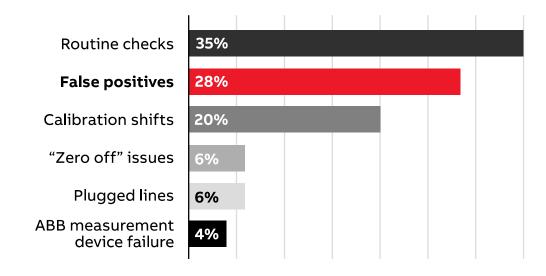


40%

of losses due to operator error



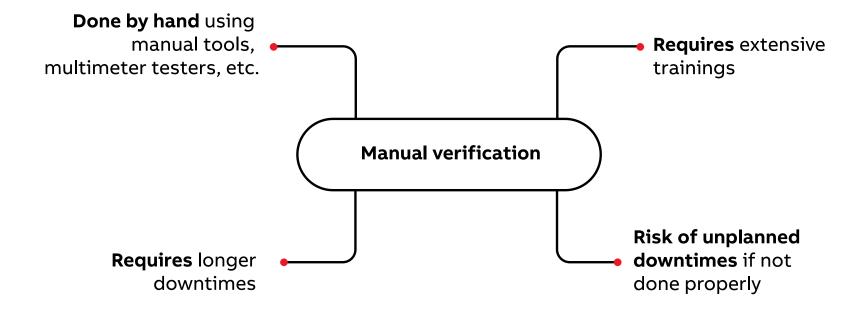
ABB studies show that our field service visits are for:



Eliminate the avoidable

Manual verification is slow and problematic

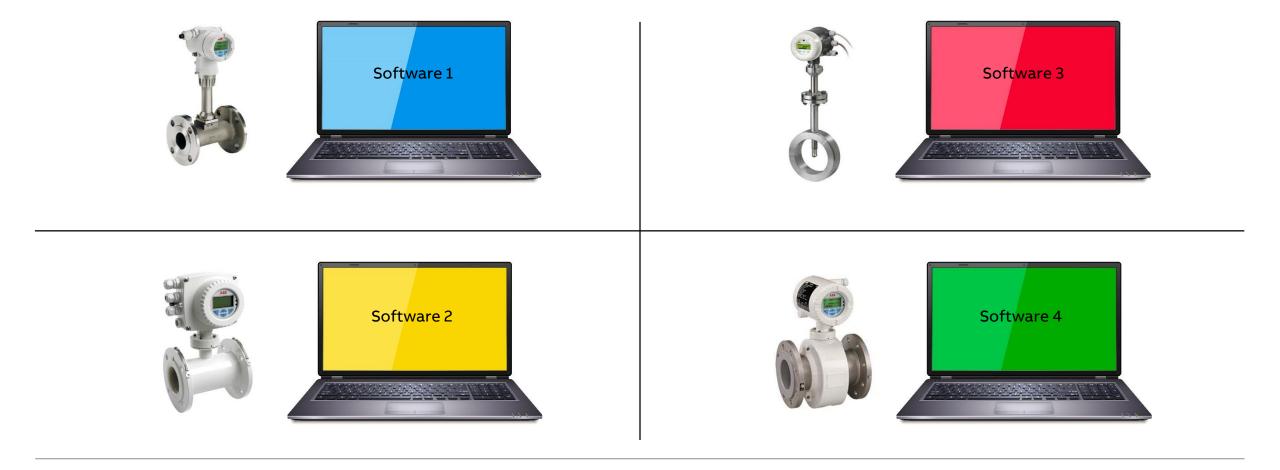
Meaning longer downtimes





Software verification is faster

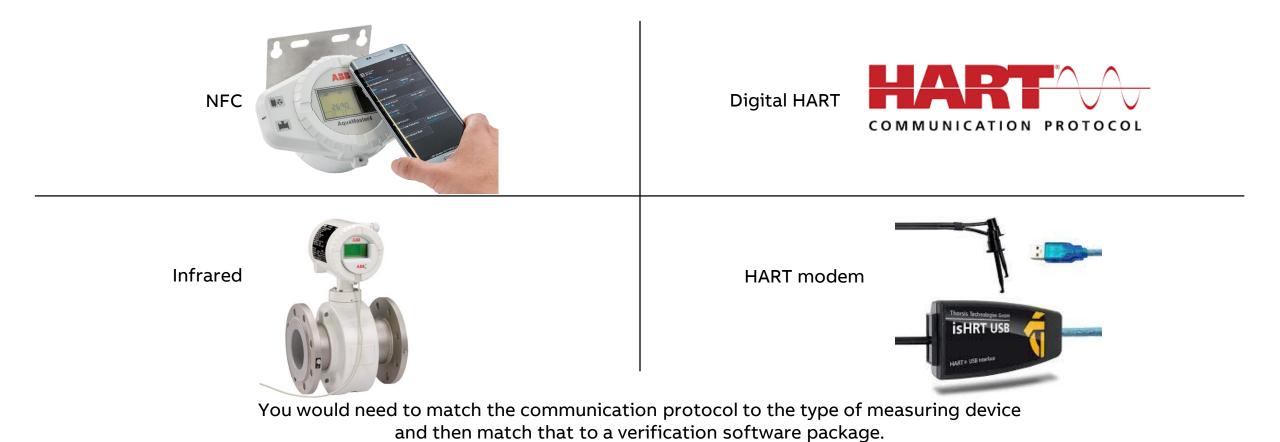
But you need multiple software packages for multiple device types





Communication protocols limit functionality

Historically, one verification software did not work with all communication protocols



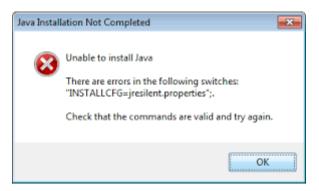


Difficult and outdated software technologies

Slows down or delays verification process



Windows XP OS and lower



Problems during installation



32 bit based



Outdated software design



Introducing ABB Ability™ Verification for measurement devices

One software package verifies multiple device types

Order for next releases:

Priority 1:

- Magneto-restrictive level (LMT)
- Coriolis

Priority 2:

- Positioners (EDP, TZIDC)
- Continuous water analyzers
- Hybrid electromagnetic flowmeters

Priority 3:

- Pressure 266
- TTX300 temperature
- · Thermal mass flowmeters











WaterMaster



AquaMaster

1 software for a variety of device types = simpler, faster verification



Compatible with all 4 communications protocols

Plug in the appropriate USB adapter

Using one software package on your tablet or notebook, you can communicate using the 4 most common protocols to verify multiple types of measurement devices.















Easy-to-install and use

Automated, Fast & One click installation process

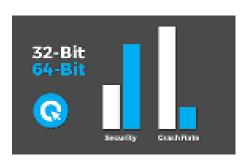
- Easy to install: first download and install the SRV500 program and then your device-specific Verification Definition Files (VDFs)
- Runs on latest supported OS by Microsoft.
- Runs tablet / PC / laptop



Newest OS



64 bit



Easy to install



Intuitive design

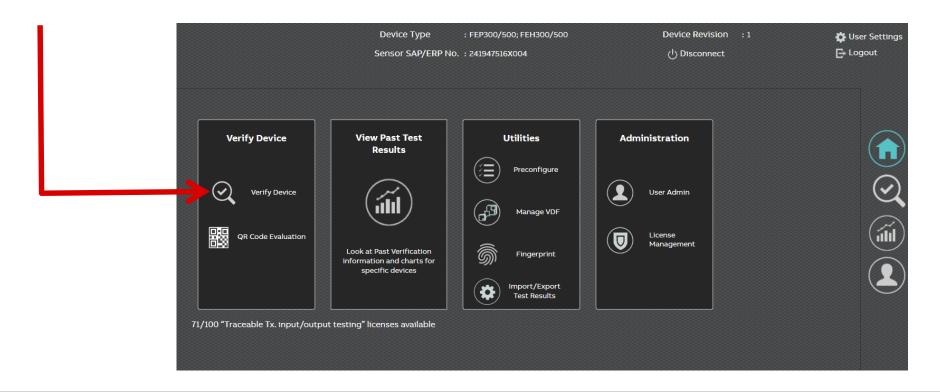


Latest technologies = faster tests



Intuitive, simple user interface

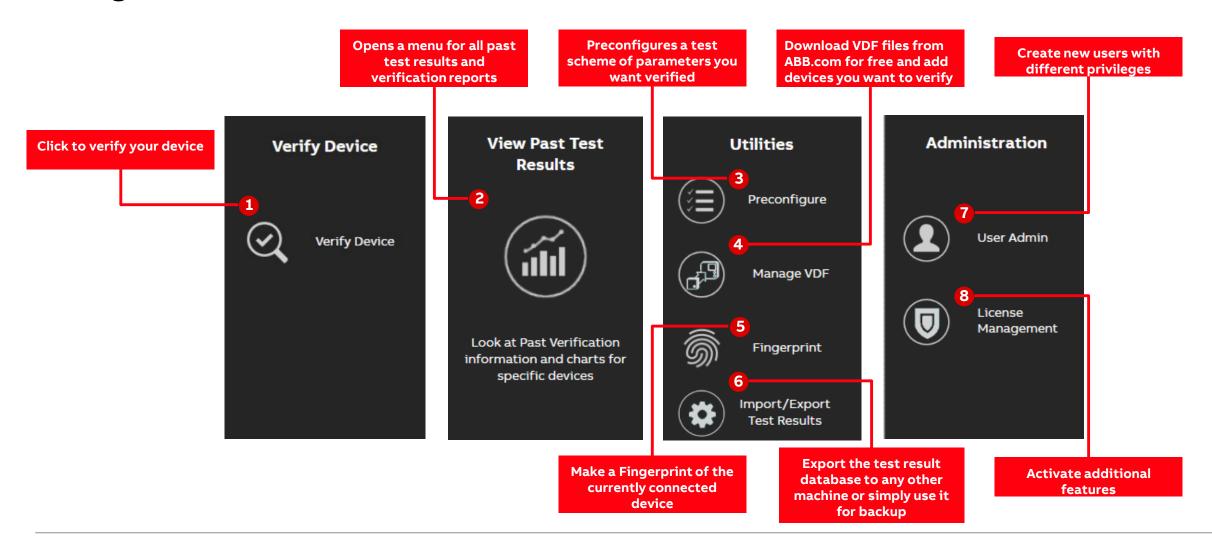
Most tests involve just one click



Easy-to-use = faster tests



Straightforward functions





Verify devices to design parameters

Quickly, without production loss

Auto-verification extends your calibration cycle:

Reduce costs by only calibrating when necessary*

Verification is now used to meet:

- ISO 9000 / 9001 QMS
- Industry regulations (e.g. WRAS,ACS, DVGW W270, NSF 61, AZ/NZ 4020)
- Safety requirements





Reduce costs, speed up verification

Manual vs. automated verification

Cost reduction example

Annual revenue	\$150,000,000
Personnel \$/hour	\$60
Production hours	24/7/345
Measurement devices	75
Annual verification \$ for regulatory requirements	\$150,000
Annual maintenance & repair on devices	\$100,000
Lost production due to poor quality	5%

Summary & results	Low estimate	High estimate
Reduced maintenance	\$162,000	\$170,000
Improved quality production	\$75,000	\$150,000
Increased throughput (production)	\$130,435	
Risk reduction	\$730,435	
Total potential annual reduction to costs	\$1,097,870	\$1,180,870



The basic program is no cost

Try it before you buy it

1) Google "SRV500" and download the verification software to try before you buy it.



2) Download the Verification Definitions Files for each type of measurement device.



The complimentary version lets you run the verification for your measurement device, delivering either a PASS or FAIL result.

Quickly verifies your measurement devices.

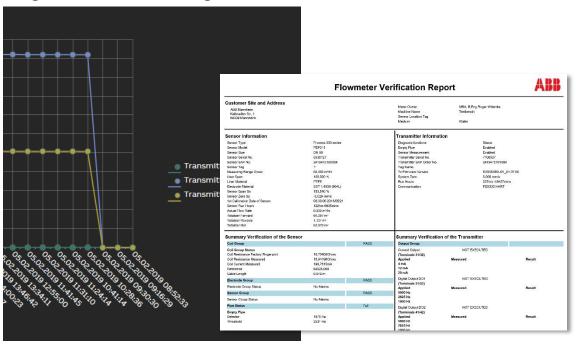


Full-feature software does much more

Enables predictive maintenance via condition monitoring

- 1) Verification reports: print/import/export test results. Results can be uploaded to user's servers.
- 2) Chart past and current test results to trend diagnostic data. In other words, perform predictive maintenance based on the actual condition of the device.

Diagnosis data trending:



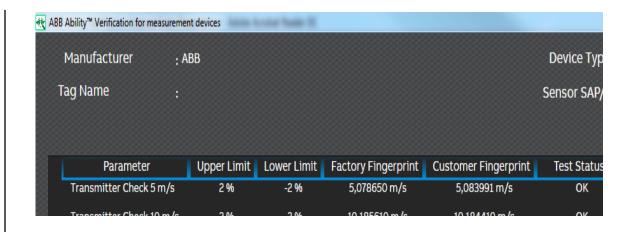
Predictive maintenance maximizes your production availability



Fingerprint function

Fingerprint to Factory or on-site verification tests

- Fingerprint to Factory: verify the device to its original factory verification test to ensure performance has not degraded or
- 2) Fingerprint on Demand: after device commissioning, create a new Fingerprint based on the actual conditions at your site



Compare the device's actual performance to the most relevant benchmark for your production process



Cyber security for SRV500

Meets all of the following ABB requirements

Minimum cyber security requirements

Implementation

- Removal of backdoors
- Confirm quality of crypto and security functionality
- Hardening

Processes

- Vulnerability handling
- Patch management
- Digital certificates
- Use of ABB Public Key Infrastructure

Verification

- Security assessment
- Robustness testing
- Malware prevention

Documentation

- End-user documentation
- Deployment guidelines

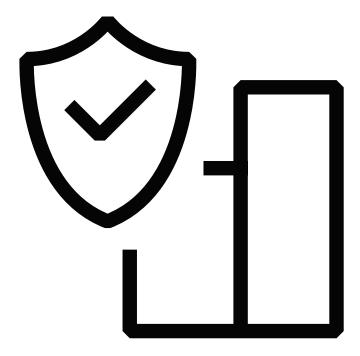




ABB Ability™ Verification for measurement devices

Channel partner testimonials

From pump rental supplier:

"We have now been using the new software for months. It has cut down the time needed to test the magnetic flowmeter considerably. We now have no waiting time when testing. The layout of the new software is also great, with clear indications on 'pass' or 'failed' results. The ability to reference each unit at a later date will be very useful."

Electrical Asset & Support Manager

From a flow measurement service provider:

"I would just like to say a big thank you for helping us with the software. The software is a treat. Not only has this software potentially stopped us from being kicked off a contract, it may well open future doors."

Sales Manager





ABB Ability™ Verification for measurement devices

Summary of SRV500 benefits

Feature	Benefit
Universal	Tests multiple device types
One-click	Fully automated test
Fast	4x faster than manual tests
Compatible	Handles common device protocols
Intuitive	Minimized learning curve & training investment
Secure	Less risk for cyber attacks & related impacts
Fingerprint	Faster, more effective decisions



Verification made easy



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