

Keysight Resident Professionals Increase Your Uptime

Resident Professionals use our quick-test software to ensure your instruments are ready for use



If you're up against a deadline to deploy a new test system, our automated operational verification helps you avoid last-minute surprises by ensuring instrument readiness prior to initial set up in your lab or production line.

Based on a check of all active service notes by our quick-test software, our Resident Professional may recommend firmware or hardware updates to further maximize uptime.

Maximize uptime for your crucial instruments

Our onsite Resident Professionals do more than just calibrate your instruments. They use automated quick-test software to operationally verify instrument functionality using LAN or GPIB connections—typically in 15 minutes or less. This is the same software we use in Keysight service centers to ensure the health of more than 100 of our most complex instruments.

Using our quick-test software, your Resident Professional can provide the following capabilities:

- Identify both common and rare problems such as intermittent defects and frequency-dependent errors that are impractical to detect with manual procedures
- Compare model, serial number and firmware revision of your instrument to a known list of service notes to identify what firmware and upgrades may be required
- Actively share insights from the test reports, helping your test team plan scheduled updates, upgrades and repairs

See the results at a glance

Each report shows whether the instrument passed or failed its operational verification. The report also includes a list of service notes for that specific instrument, alerting the Resident Professional to evaluate the situation and recommend next steps.



Table 1. Comparison of verification procedures

	Operational verification (quick-test software)	Performance verification (calibration software)
Brief definition	Tests key operations, features and functions	Measures specified performance for every specification and every installed option, every time
Warm-up time	None or minimal	24 hours for electronic stabilization
Test Time	Typically takes 5 to 15 minutes, depending on instrument and test configuration	Typically takes 3 to 8 hours, depending on the instrument
Reports	Test results report	Calibration certificate and measurement report
Required test equipment	Typically none or minimal	Typically requires a complex configuration of ETE ¹

1. ETE (external test equipment) is the set of instruments required to verify an instrument.

Table 2. Quick-test software covers more than 100 models

We have quick-test software for spectrum analyzers, network analyzers, signal generators and wireless test sets listed below. The tests used for each model vary according to its functionality.

Spectrum analyzers

Portable spectrum analyzers

8560E, 8560EC, 8561E, 8561EC, 8562E, 8562EC, 8563E, 8563EC, 8564E, 8564EC, 8565E, 8565EC

EMC spectrum analyzers

E7401A, E7402A, E7403A, E7404A, E7405A

ESA spectrum analyzers

E4401B, E4411B, E4402B, E4403B, E4404B, E4405B, E4406A, E4407B, E4408B

MXE EMI receiver

N9038A

RF spectrum analyzers

N9320A, N9320B

Noise figure analyzers

N8972A, N8973A, N8974A, N8975A

PSA spectrum analyzers

E4440A, E4443A, E4445A, E4446A, E4447A, E4448A

X series signal analyzers

N9030A, N9010A, N9020A, N9000A

Table 2. Quick-test software covers more than 100 models (Continued)

Network analyzers

PNA microwave network analyzers

N5221A, N5222A, N5221A, N5222A, N5221A, N5222A, N5230A, N5230C, N5231A, N5232A, N5234A, N5235A, N5239A, N5241A, N5241AS, N5242A, N5242AS, N5249A, N5249AS, N5244A, N5244AS, N5245A, N5245AS, N5247A

ENA network analyzers

E5061A, E5062A, E5061B, E5070B, E5071B, E5072A, E5071C

PNA network analyzers

E8361A, E8361C, E8362A, E8362B, E8362C, E8363A, E8363B, E8363C, E8364A, E8364B, E8364C

Signal source analyzers

E5052A, E5052B

Signal generators

PSG analog signal generators

E8257D, E8267D, E8663D

ESG analog signal generators

E4428C, E4438C

MXG analog signal generators

N5161A, N5162A, N5181A, N5182A, N5171B, N5172B, N5181B, N5182B, N5173B, N5183B, N5183A

Wireless test sets

EXT wireless communications test set

E6607A, E6607B, E6607C, E6617A

8960 series wireless communications test sets

E5515B, E5515C, E5515E

Wireless connectivity test set

N4010A

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