Keysight Resident Professionals Increase Your Uptime
Resident Professionals use our quick-test software to ensure your instruments are ready for use

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.

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.
### Table 1. Comparison of verification procedures

<table>
<thead>
<tr>
<th>Brief definition</th>
<th>Operational verification (quick-test software)</th>
<th>Performance verification (calibration software)</th>
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<tbody>
<tr>
<td></td>
<td>Tests key operations, features and functions</td>
<td>Measures specified performance for every specification and every installed option, every time</td>
</tr>
<tr>
<td>Warm-up time</td>
<td>None or minimal</td>
<td>24 hours for electronic stabilization</td>
</tr>
<tr>
<td>Test Time</td>
<td>Typically takes 5 to 15 minutes, depending on instrument and test configuration</td>
<td>Typically takes 3 to 8 hours, depending on the instrument</td>
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<tr>
<td>Reports</td>
<td>Test results report</td>
<td>Calibration certificate and measurement report</td>
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</tbody>
</table>

| Required test equipment | Typically none or minimal | Typically requires a complex configuration of ETE 1 |

Note: 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 (Continued)

#### Network analyzers
- PNA microwave network analyzers
- ENA network analyzers
- PNA network analyzers
- Signal source analyzers
  - E5052A, E5052B
- Signal generators
  - PSG analog signal generators
    - E8257D, E8267D, E8663D
  - ESG analog signal generators
    - E4428C, E4438C
  - MXG analog signal generators
- Wireless test sets
  - E8560C signal generator
  - EM6120 series wireless communications test sets
  - E5515B, E5515C, E5515E
  - 8960 series wireless communications test sets
  - E5515B, E5515C, E5515E
- Wireless connectivity test set
  - N4010A

### 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
- ESA spectrum analyzers
- MXE EMI receiver
  - N9038A
- RF spectrum analyzers
  - N9320A, N9320B
- Noise figure analyzers
  - N8972A, N8973A, N8974A, N9375A
- PSA spectrum analyzers
- X series signal analyzers
  - N9030A, N9010A, N9020A, N9000A

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