

19.11.2026

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Echo Probe Industrial

For service assurance, industrial IoT & industry 4.0 monitoring

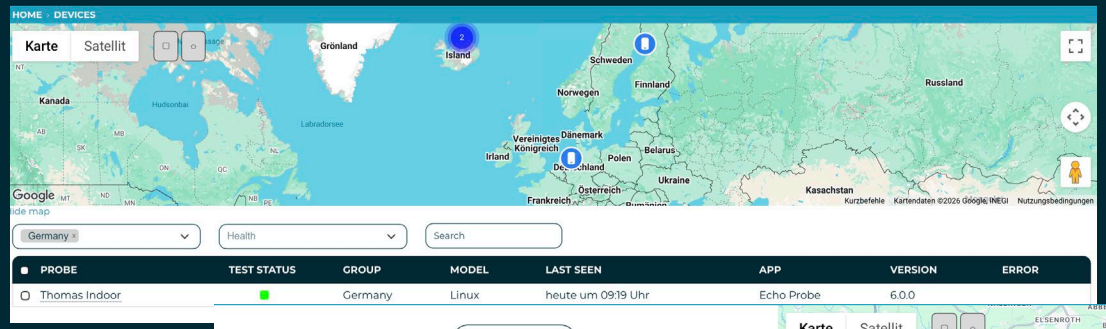
Echo Probe Industrial is a compact, cost-effective solution for unattended, continuous service quality monitoring at fixed locations. It supports a wide range of commercial off-the-shelf smartphones and enables remote, autonomous, and simultaneous testing across multiple sites.

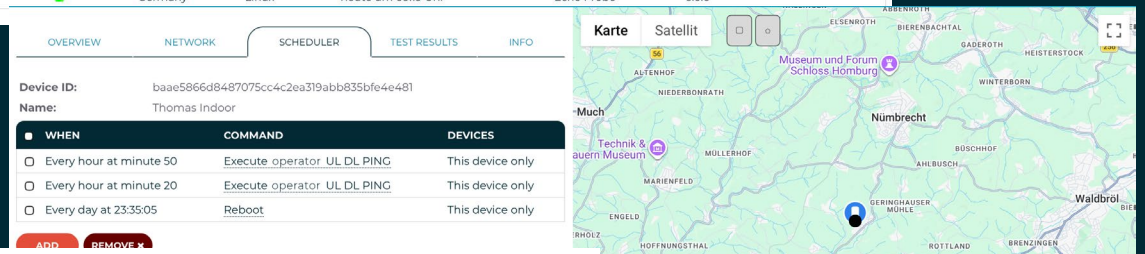
Its low-profile, integrated design allows discreet measurements with minimal disturbance and can be customized to meet local requirements. The outdoor enclosure includes integrated air conditioning and AC power connectivity for uninterrupted operation.

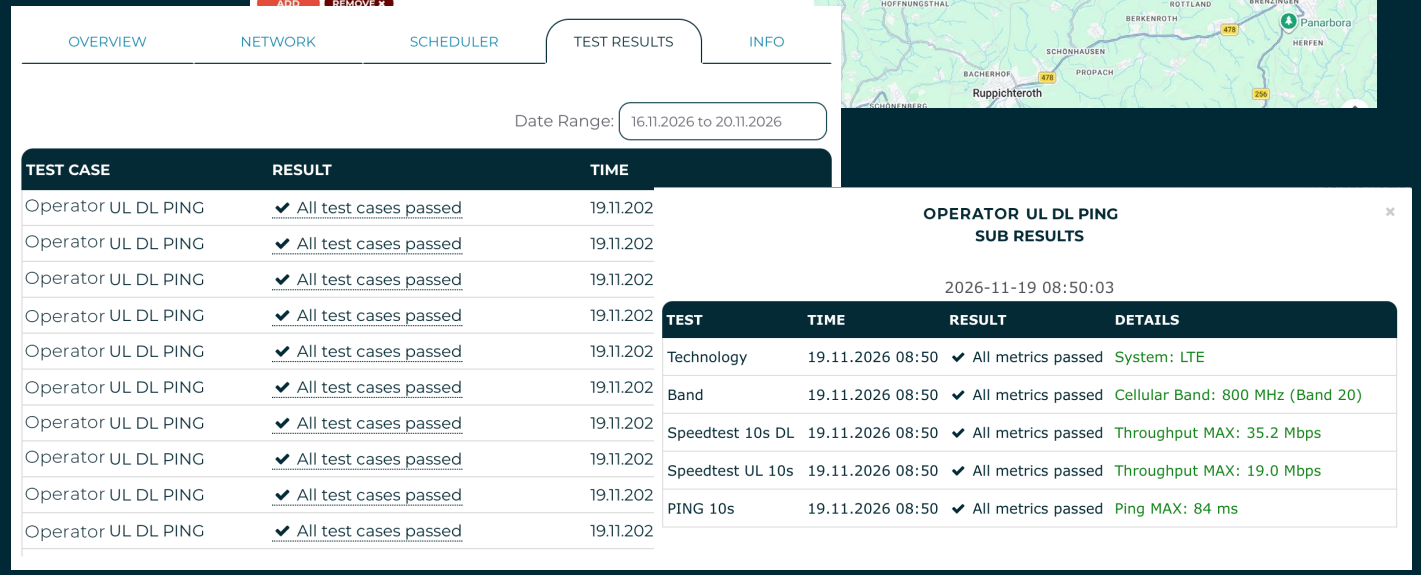
Echo Cloud enables remote control, real-time network monitoring, test scheduling, and centralized management of hundreds of Echo Probe units using one or multiple configuration sets, supporting large-scale distributed KPI monitoring.



Cloud control







Once deployed, all functions are managed remotely through the Echo Cloud dashboard, eliminating the need for physical access to the probes.

Dashboard features:

- 24/7 monitoring to check for trouble-free operation
- Alarm function to inform support team
- Remote (re)configuration of all tests and scripts
- Scheduler to individually run tests on the probes
- Automatic and manual reboot in case of errors
- Remote software update
- Automatic forward of KPI results to any supported postprocessing or reporting tool

Flexible Deployment

Echo Probe Industrial can be installed as a local measurement probe in any fixed location for large-scale operations enabling multiple applications.

Unlike traditional solutions, the Probe requires no PC for measurements. Its plug-and-play design enables rapid deployment, allowing measurements to start immediately without any preparation.

Autonomous Operation

Intelligent self-healing procedures ensure an autonomous operation, recovering from equipment faults without manual intervention.

The remote control via Cloud enables anyone to fix Echo Probe Industrial to any location while measurements are controlled, and settings and tests pushed to it remotely.

This is convenient especially in situations where the measurement areas require security clearances or other permissions: simply hand the probe to a person who has the necessary clearances while the devices are controlled and monitored remotely by technical personnel.

Environmental Protection

The enclosure includes not only a state-of-the-art electronic protection to shield the electronics from overvoltage but also surge protection for any external power spikes.

The advanced climate control unit includes both active cooling and heating elements and therefore it allows installation to outdoors with a wide range of temperature variation.

The cooling system has fanless design and therefore does not require any openings in the enclosure keeping it water and dustproof.

The enclosure also has double-plated design with air gap surrounding it which makes it well insulated allowing even wider range of operation.

Safety & Compliance

Echo Probe Industrial enclosure is classified IP55 to allow outdoor installation. The classification guarantees that the enclosure is protected from limited dust ingress, and from low pressure water jets from any direction.

The probe is CE certified. You can rest assured that it meets any CE standards for safety.

Hardware Features

CE certified and IP55 classified

Lightweight and durable hardware design with safety features and easy fixing, lock-protected

Central charger with pass-through charging: device can be charged overnight or anywhere in the field

Easy access to view or swap the build in phone

Active air conditioning with heater/cooler to maintain any outdoor temperature ranges

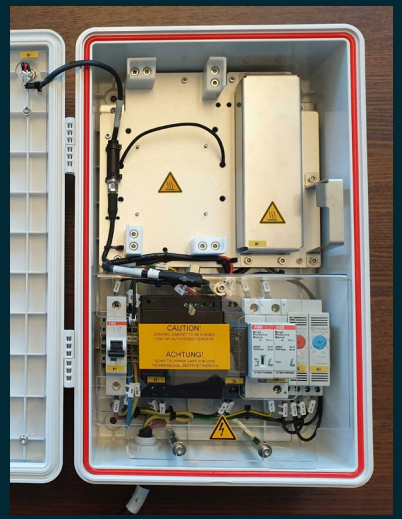
Dimensions are customizable according to customer requirements

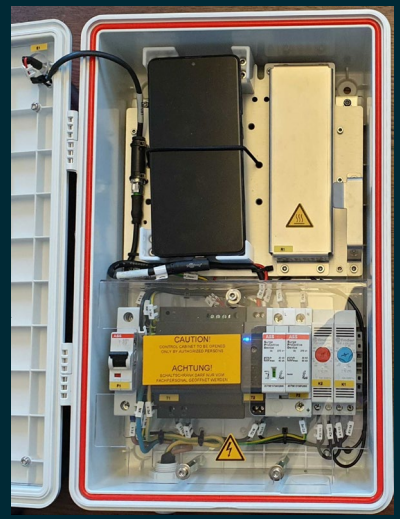
Weight is customizable according to customer requirements

Operating temperature with active air conditioning) 4G and 5G: -20°C ~ 45°C

Power connection 230V









Technical Capabilities

Tests

- Voice Call (MOC)
- Voice Call (MTC)
- VoLTE
- VoWiFi
- MOS-LQO (ViSQOL)
- MOS (POLQA v3)
- FTP (UL/DL)
- SFTP (UL/DL)
- SMS
- HTTP Browser
- HTTP File Ul/DL
- PING
- TW PING (TWAMP)
- YouTube
- iPerf TCP/UPD (UL/DL)
- Manual Script Testing
- Automatic Script Testing
- Wi-Fi
- Ookla Speedtest.net UL/DL/Ping
- Traceroute Test

Forcing

- Technology
- Band
- Channel
- Cell

Phone Rooting

- Standard Android Root (free of charge)

Remote control

- Measurement Control
- Test Case Management
- Device Monitoring

Technologies

- GSM
- UMTS
- EVSO
- LTE (TDD/FDD)
- Wi-Fi
- Bluetooth
- 5G (NSA/SA)

Chipset Support

- Qualcomm
- HiSilicon (Huawei)
- Exynos (Samsung)

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Do you like this solution?
Please contact Heynen for distribution in BENELUX.

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