

Features & Specifications

Analysis Tools

Analyze pressurized air leak snapshots	Pressurized air leak recognition Air leak size estimate Air leak cost estimate ISO 50001 compatible reporting
Partial discharge type classification	PRPD pattern Negative corona Positive corona Floating discharge Surface discharge or discharge inside a component
Partial discharge severity assessment	Partial discharge description Recommended actions
Additional analysis features	Sound pressure level Time domain signal FFT spectrum STFT spectrogram Cepstrum Autocorrelation Dynamic range slider

Automatic Reporting & Backup

Reports	Automatically generate PDF reports
Backup	Store and back up NL Camera snapshots
Snapshot browsing	Browse and view snapshots online immediately after capture

Requirements

Device	Smart mobile device or computer with a modern web-enabled operating system
Internet browser	Any modern browser, e.g. Google Chrome, Microsoft Edge, Mozilla Firefox
Data transmission	WiFi for direct upload between the camera and the cloud Optional USB flash drive

Supported Languages

Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese

Details

Label: AC100000_00077_180312_1925_0077
 Serial: AC100000
 ID: 6420
 Creation date: 2018-03-12 19:25:59 GMT+0200
 Synchronisation date: 2020-04-23 13:01:31 GMT+0300

56.8 dB
 59.3 Db ————— 46.6 Db

Leak analysis:

Distance: 5 m away

Estimated leak size: 20 l/min
 Estimated annual cost: 249 €
 Compressed air

PRPD

0.0 ms 5.0 ms 10.0 ms 15.0 ms 20.0 ms

Partial discharge type

negative corona: [Progress bar]
 positive and negative corona: [Progress bar]
 floating discharge: [Progress bar]
 surface or internal discharge: [Progress bar]

Analysis parameters

Distance: 15 m
 Voltage: 220 kV
 Location: disc insulati

Severity

very high
 high
 medium
 low

Description:
 This is classified as corona, i.e., partial discharge into air. In most cases, corona is harmless.

Recommendation:
 Typically no action required unless power loss, audible noise, electromagnetic interference, or deterioration of nearby polymer insulators is a problem.

The NL Cloud is a machine learning-powered cloud service included with the NL Camera. Users can automatically back up and store images taken with the NL Camera in the NL Cloud. All the data the images contain is immediately available for viewing.

The NL Cloud offers advanced machine learning based analysis for air leaks or partial discharges:

- When using the leak version of the camera, the NL Cloud will analyze the leak's size and calculate a leak cost estimate.
- When using the partial discharge version of the camera, the NL Cloud will show the PRPD (Phase Resolved Partial Discharge) pattern, analyze the type and severity of the partial discharge, and give action recommendations.

The NL Cloud generates in-depth reports with a PDF export option. The leak report is ISO 50001 compatible.