



Triton® Performance Upgrade

Improves Data Capture Rates



Features

Vaisala Triton Wind Profiler:

- Remote sensing system for greenfield prospecting, shear validation, wind resource assessment, and forecasting
- Uses SoDAR technology for measuring wind data

Designed to boost data capture across the rotor-swept area of today's turbines, Vaisala Triton Performance Upgrade is included in all new Tritons and is available as a retrofit to Tritons already in the field.



Triton Wind Profiler

Why Triton Performance Upgrade

At Vaisala, we are committed to helping our customers keep pace with changes in turbine technology. Triton Performance Upgrade stems from a two-year, \$2-million R&D effort aimed at improving the Triton's data capture rates at the higher heights that matter most to state-of-the-art wind turbines.

Triton Performance Upgrade is a redesigned speaker array which effectively adds 30 ... 50 m (98 ... 164 ft) to the heights at which Triton captures high-quality wind data. The array uses a new generation of purpose-built speaker technology, developed in-house, to focus the sound beams more effectively. The speaker array has passed

extensive laboratory and field testing, and upgraded Tritons have been validated in both internal and independent field studies.

Upgrading Your Triton



Field service technician removing current array and replacing it with the upgrade.

Should You Consider Upgrading Your Triton?

Less-than-optimal data recovery can occur with any wind measurement system, depending on the location and site conditions. You should consider upgrading your Triton if your current or future wind study will benefit from greater data capture rates at and above hub height.

What Is Involved in the Upgrade?

To upgrade an existing Triton, one of Vaisala's qualified field service technicians will visit your Triton, remove your current array, and replace it with the upgrade. Triton Performance Upgrade is a turnkey service: the technician will take back your current array and dispose of all shipping material for you. During the service visit and

installation procedure, the Triton will need to be turned off for a short time. There may be a gap of 10 ... 30 minutes in the data during that time.

How Is Triton Performance Upgrade Tracked?

Triton Performance Upgrade is logged as part of your Triton's permanent history. To view it at any time, simply log in to the secure web portal and go to the operational data page.

How Much Does Triton Performance Upgrade Cost and How Do I Schedule My Triton for an Upgrade?

Vaisala strives to ensure that every Triton can be upgraded affordably. For more information, please contact us.



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