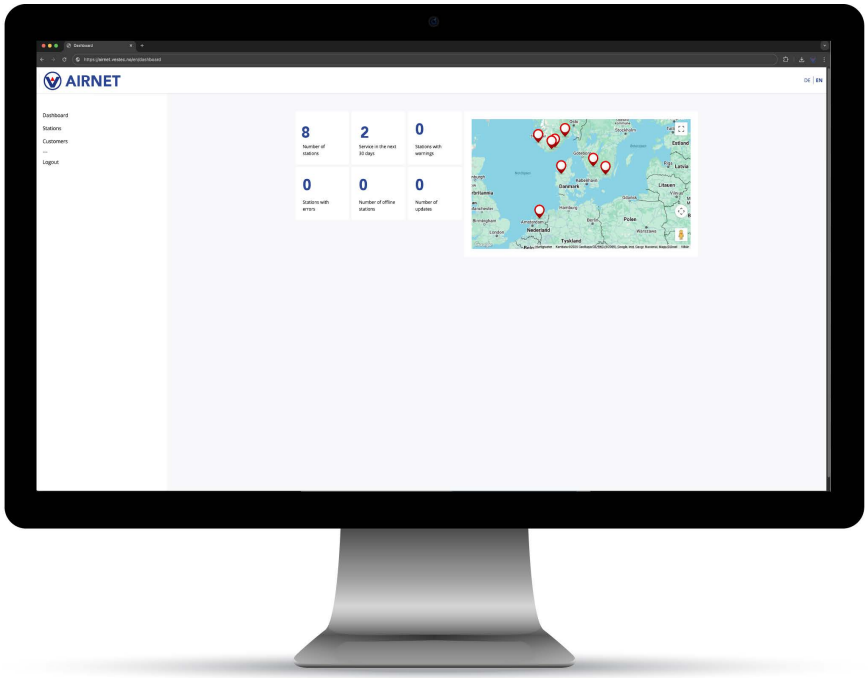
VESTEC | AIRNET
Online monitoring system

Solutions for monitoring pressurised air installations

Rev 04_1124



INDUSTRY 4.0

Real-time monitoring of the pressurised air system

The solutions in the **AIRNET** product range bring every compressed air system into the cloud.

Online monitoring of the most important measured values, analysis of historical data, planning support for service assignments, flexibly expandable to meet your requirements!

The unlimited and exportable data logging provides a view into the history of the compressed air station in order to find the reason for recurring problems. All data can be visualised.

The basis is either the **DEW POINT CONTROL 4.0** or, in case of compressed air stations without desiccant dryers, the **VESTEC|AIRNET GW4.0** gateway.

As all settings are saved locally in the control unit or the gateway, internet connectivity problems don't affect your business.

The AIRNET effects +++

+ **identify critical situations online at any time**
+ **no unnecessary trips to the client site**
+ **Data logging and visualisation of current and past data (without limit to the amount of data)**

+ Warnings and error messages by e-mail
+ Prevention through optimised service and deployment planning
+ No access to user data by VESTEC
+ Private label version for user presentation (optional)
+ Additional data boxes enable the connection and the definition of a large number of sensors
+ Switching of electrical components via defined conditions
+ Software as a web app: no installation on end devices necessary ▸ Access with any internet-enabled device
+ Databases and servers at German locations, encrypted connection between server and user device

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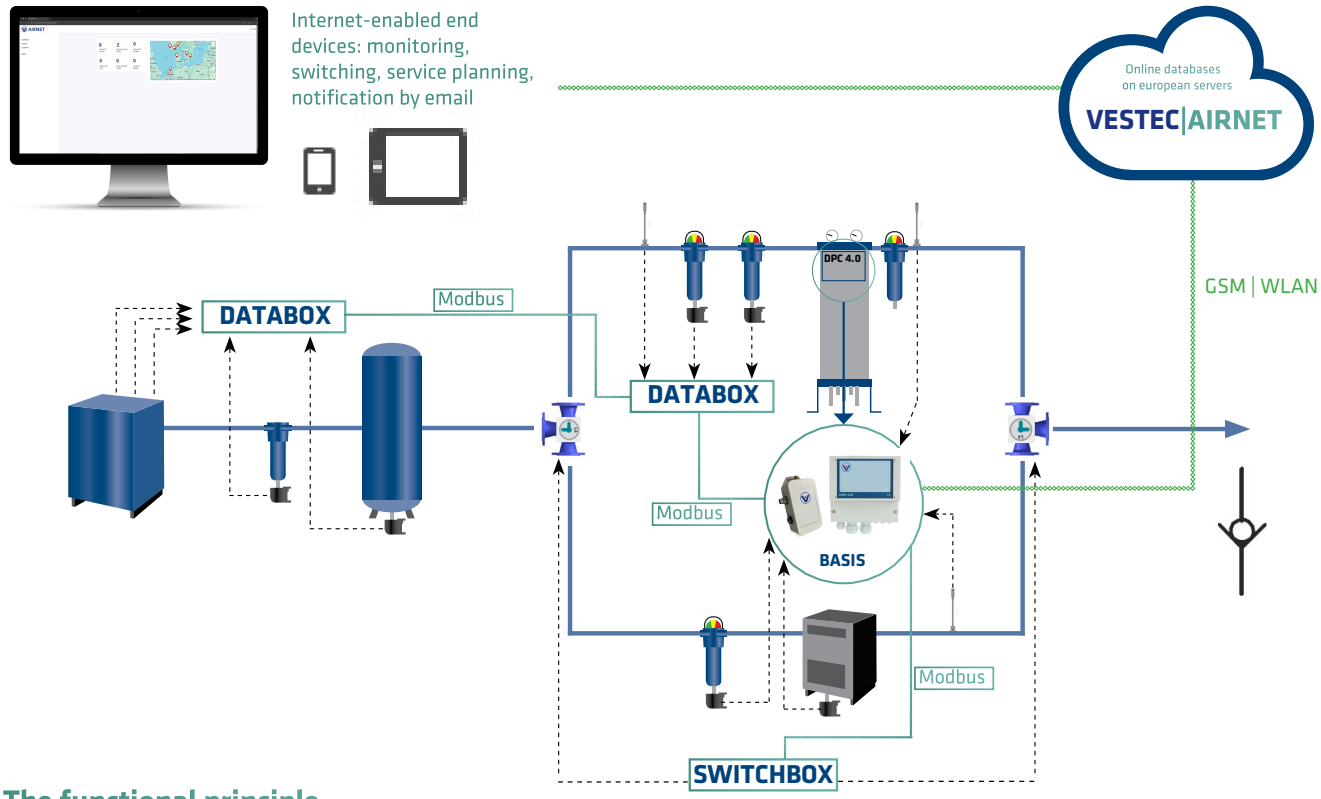

The functional principle

Basic equipment

The **DEW POINT CONTROL 4.0** is a component of the entire **VESTEC|AIRNET** control system. This has several advantages for the user:

With the installation of an adsorption dryer with **DPC4.0** everything is already in place to connect the entire system to the Internet immediately or at a later date. No additional devices are required as a „gateway".

6 sensors can already be connected to the basic device without any additional hardware. It also provides two outputs (more information on page 3).

The control unit is operated via a coloured panel. For more convenient set-up, the control unit and gateway can be accessed via a browser and Wi-Fi, for example from a tablet or notebook. The set-up areas are of course passwordprotected.

The new VESTEC|AIRNET GW4.0 gateway is used to monitor a pressurised air station without an desiccant dryer. A DEW POINT CONTROLLER 4.0 is no longer necessary in this case.

Integration of additional hardware

The **DPC4.0** and the **GW4.0** offer the option of connecting various boxes via Modbus. is a choice of two different **data boxes** - in sizes „S" and „L- with a different number of inputs as well as our switch box, which forwards current signals as a **relay box**.

The software

Our self-developed software **VESTEC|AIRNET** works as a web app. It is therefore accessible via any internet-enabled end device. Of course, the display adapts to the respective end device (mobile phone, tablet, computer, ...) on.

VESTEC|AIRNET is accessed via an encrypted connection. Data traffic between the database on European servers and the controller/gateway is also encrypted.

Possibilities

All system values such as volume flow, pressure dew point, system pressure, operating hours and much more can be sent. Unlimited data logging allows extensive analyses.

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The hardware:

DPC4.0

+ Sends the data to the cloud
+ Plug&Play connection of sensors with Modbus
+ GSM LTE & WiFi with worldwide coverage
+ 6 inputs for sensors: 5 x 4 - 20 mA, 1 x PT1000

GW 4.0

+ Sends the data to the cloud
+ Plug&Play connection of sensors with Modbus
+ GSM LTE & WiFi with worldwide coverage
+ 1 input for sensors/databox: 1x Modbus M8 plug

Databox S - „The small extension“

+ Connection to ETC 4.0 or GT 4.0 via System Modbus (max. 5 Databoxes in series)
+ 1 x PT1000
+ 3 x 4 - 20 mA (optional for potential-free fault contacts)
+ 2 x Modbus

Databox XL – „The big extension“

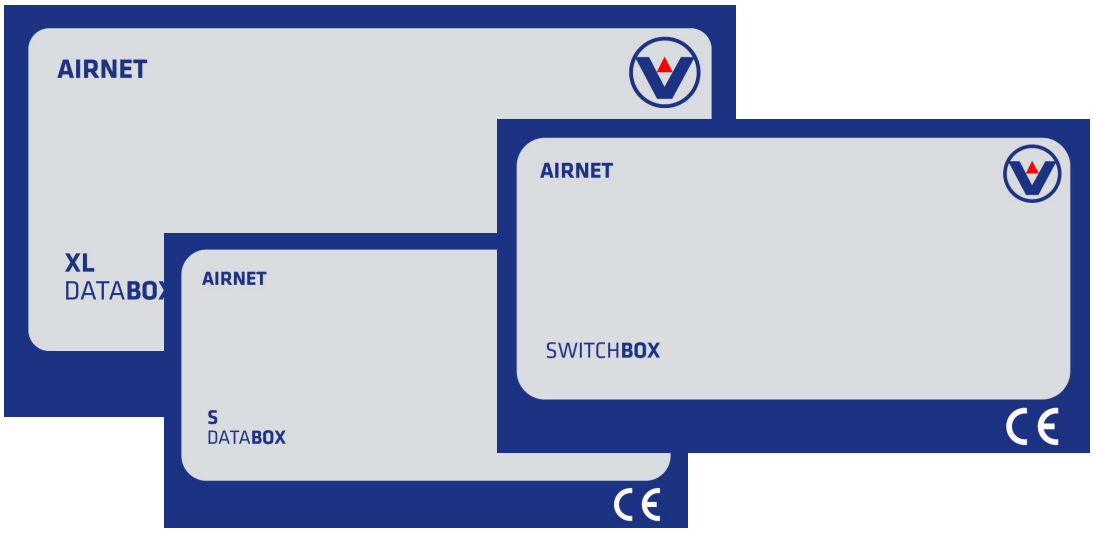
+ Connection to DPC4.0 or GW 4.0 via System Modbus (max. 5 Databoxes in series)
+ 3 x PT1000
+ 9 x 4 - 20 mA (optional for potential-free fault contacts)
+ 7 x Modbus

Switchbox - „Execution on site“

+ 5 x potential-free changeover contact (relay output)
+ Execution of interlinked conditions, e.g. for automated summer/winter Changeover or pressurisation systems

„IoT Flex SIM“ card

+ Comprehensive coverage in 30 countries
+ 10 years, 500 MB
+ Third-party IoT cards can also be used (ETC 4.0 only)



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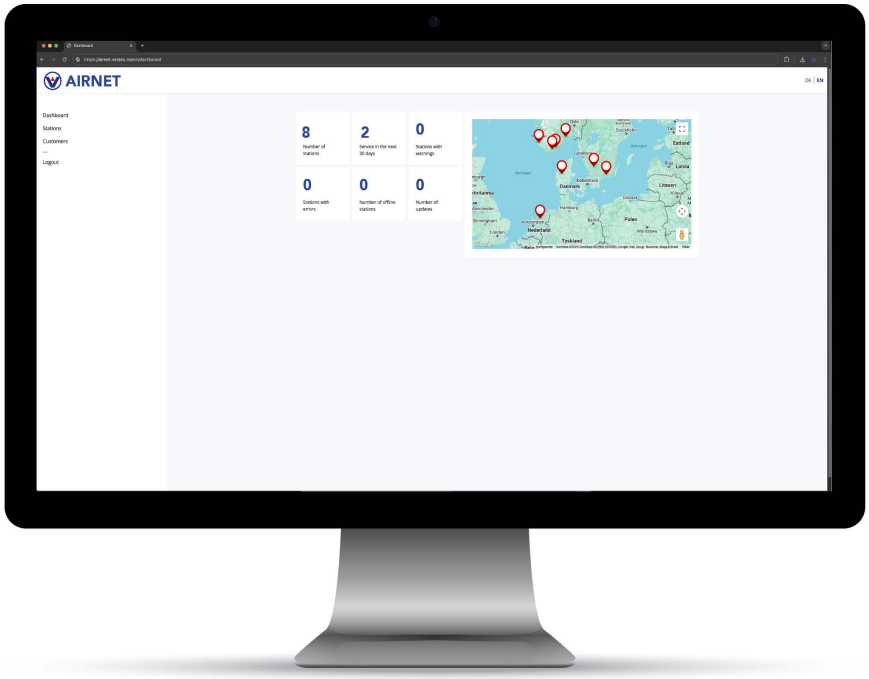
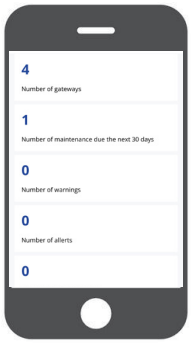
CLOUD BASED

+ Overview and status information for each station / all stations

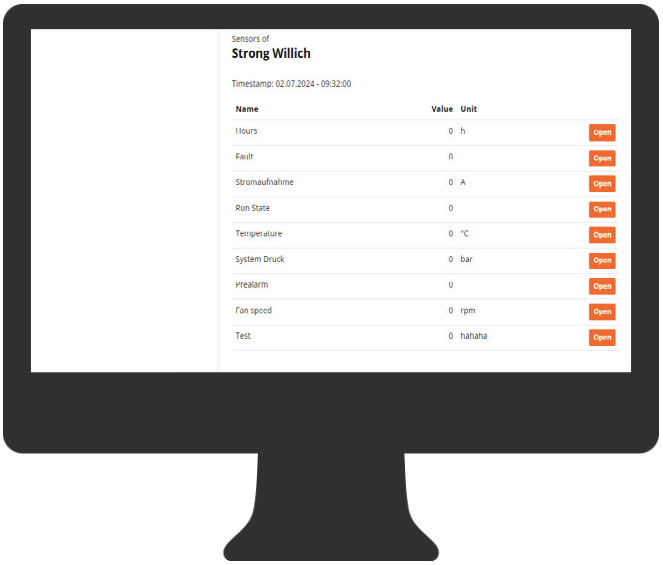


+ Access with any internetenabled device



+ Data logging without memory limitation for each sensor value

+ DPC 4.0 or GW 4.0 can be conveniently configured



VESTEC | AIRNET: software features and plans

VESTEC | AIRNET	Software version	
	ECONOMY	BUSINESS
Have online insight into situations (data) at all times. Avoidance of unnecessary journeys	✔	✔
Convenient configuration with any mobile device	✔	✔
Error messages by e-mail	✔	✔
Data logging and graphical visualisation of current data and all historical data (no limitation on volume)		✔
Freely configurable maintenance interval: prevention through optimised service and maintenance intervals operation coordination, maintenance by time or operating hours		✔
Visualisation		
Dashboard shows a summary of all stations, all messages and errors	✔	✔
Free description options for each system component (e.g. location)	✔	✔
2 values per system are displayed in the overview	✔	✔
Up to three images can be stored per system		✔
Miscellaneous		
Encrypted connection from the end device to the server	✔	✔
Server location in Germany	✔	✔
Data can only be viewed by admin with the authorisation of the customer (support purposes)	✔	✔
Adjustable data update	✔	✔
Databox S and L configurable for the connection of sensors	✔	✔
Switchbox configurable for the control of electrical components		✔
Private label (for an extra charge)		
own logo, both in the control display (when using the **DPC** as a gateway) and in the the configuration display and in the **VESTEC|AIRNET** app		✔
Custom colours for the online user interface		✔

VESTEC | AIRNET & TPK dew point measurement