



VOICE OF THE MACHINE™

HCDC Controller

For WVM Vacuum Regenerated Compressed Air Dryers



ENGINEERING YOUR SUCCESS.

HCDC

Hyper Connected Dryer Control

Introducing the new HCDC dryer controller from Parker, the leader in innovation within compressed air treatment.

Modern industry is currently in the midst of change, increased connectivity between devices is becoming common place. This connectivity allows equipment to share data via remote monitoring providing significant improvements in operational efficiency.

HCDC utilizes IoT technology, and cloud connectivity, to share performance data. This provides the basis for continuous, location independent monitoring, optimized maintenance and customized compressed air usage. All this leads to a significant reduction in service, maintenance and energy costs.



Features

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| Touchscreen 7" 16:9 (TFT, 64k color) |
| Integrated P&I flow chart |
| Data recording in 1 minute steps. Memory capacity: several years (the data is stored in files with a 2 month history). Recording frequency can be set from 1 second up to 1 hour. |
| Software upgraded via USB memory stick |
| Log download via USB (without opening the control cabinet) |
| Log file ready for reading (.csv) |
| IIOT (MQTT or OPC UA) |
| Onboard Modbus RTU on 2 wires RS485 |
| Onboard: Modbus TCP/IP on RJ45 |
| Profibus DP V0 (on request V1) with autodetection speed mode - retrofittable by service kit (optional) |
| Profinet (optional) |
| Other protocols available on request |
| <ul style="list-style-type: none">• Web server• Remote monitoring/control via VPN (internet connection needed)• Upgrade kit (with USB on front panel)• Cloud connection (optional) |

Advantages

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|---|
| User friendly interface |
| Detailed performance graphs, easily viewed in the field (in HMI page) |
| Detailed operational history of the dryer, easily viewed in the field (in HMI page) |
| Log recoverable by an operator without training, to work on open electrical panels. |
| Log files in .csv format (no Parker software required) |
| Fewer opportunities for error |

Options

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|--|
| Fieldbus |
| <ol style="list-style-type: none">1. Profibus DP V0 (or in alternative V1) with gateway (installed inside control cabinet)2. Profinet with gateway (installed inside control cabinet)3. Ethercat with gateway (installed inside control cabinet)4. Other protocols on request |
| Remote connection and monitoring (internet connection required) VPN connection to WVM via web cloud |
| Modem 3G and SIM card, if internet connection is not available on-site (installed inside control cabinet) |

VOICE OF THE MACHINE™

Voice of the Machine™ solutions take IoT to the last mile by providing visibility into critical components.

In manufacturing, compressed air is critical to keeping lines operating. With IoT-empowered compressed air systems, you can quickly deploy condition monitoring and predictive maintenance routines for factory compressed air piping systems. The condition monitoring

system uses advanced sensors, software and wireless or Bluetooth connectivity to provide a comprehensive picture of system performance through both real-time and historical data.

By providing data on vital operating metrics, such as pressure, temperature, humidity, power and flow, through an easy-to-use interface, users can rapidly diagnose problems, such as leaks, and employ predictive maintenance routines that allow them to address seemingly minor issues before they snowball into serious problems.



Remote Monitoring

In a simple web portal the customer can monitor and manage each WVM they have connected. With a single mouse click the user can establish a VPN connection directly to the WVM whose status they want to check, change a parameter or download the data files of trends (csv). Different levels of user access are available.

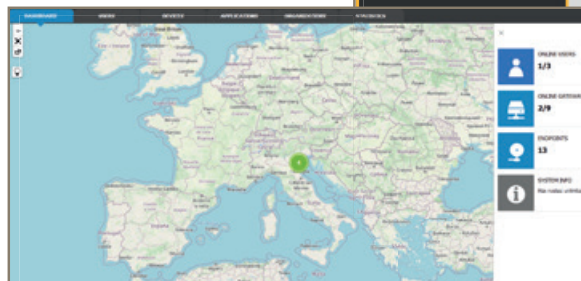
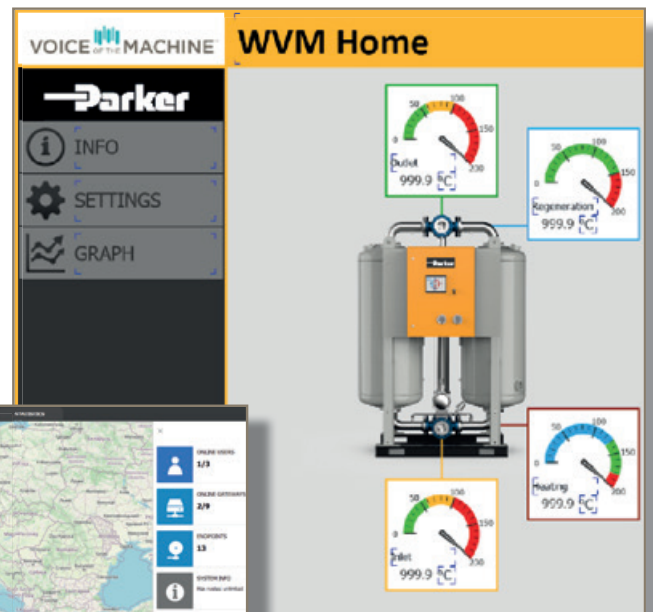
The portal allows each WVM's location to be viewed on a map.

Different clients are available to connect via a pc, smartphone or tablet. A simultaneous connection between user and WVM is required.



Cloud Connection

The new WVM Cloud with dynamic dashboard and automatic pop-up for alarms and events. This Parker developed platform provides data to a customer for all their WVMs, with one click (not just a point-to-point VPN connection).



Display of the geographical location of the WVM on a map.

Real time status review of the WVM, parameters can be changed with a password. The performance and alarm log in .csv file can be downloaded via ftp client.



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