# VAPORWARE V2®



*Quality Management System*
*and Data Logger*

*Date: September 2020*
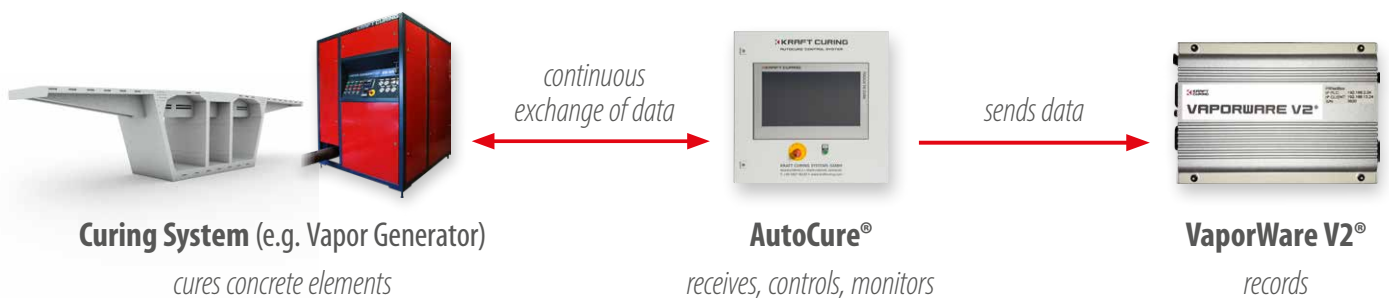
# VAPORWARE V2 ®
*Quality Management System and Data Logger*

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# VAPORWARE V2 ®

*Quality Management System and Data Logger*



For optimal control we recommend our compact VaporWare V2® quality management system, which measures, records, stores and prints all climatic curing data independently of a computer. Any Java-enabled device with a web browser (PC, tablet, smartphone etc.) can be used to access the VaporWare V2® software.

VaporWare V2® can be easily integrated into an existing network, so that protocols can be automatically printed on a network drive or printer. In this way you have your post-treatment protocols ready to hand at any time!

## ADVANTAGES:

▸ Quick setup and network integration

▸ Curing data can be displayed, saved and printed out clearly and in colour

▸ Adaptability of language, temperature display and time steps

▸ Operating times of the entire curing equipment can be displayed

▸ Information on the curing costs can be determined

▸ Automated data output possible

▸ Protocols can be called up at any time and from any place

*continuous exchange of data*

*sends data*

**Curing System** (e.g. Vapor Generator)

*cures concrete elements*

**AutoCure®**

*receives, controls, monitors*

**VaporWare V2®**

*records*

# VAPORWARE V2 ®
*Quality Management System and Data Logger*

## BATCH-REPORTING

▸ According to FDA guidelines according to 21 CFR Part 11

▸ Several different protocols simultaneously

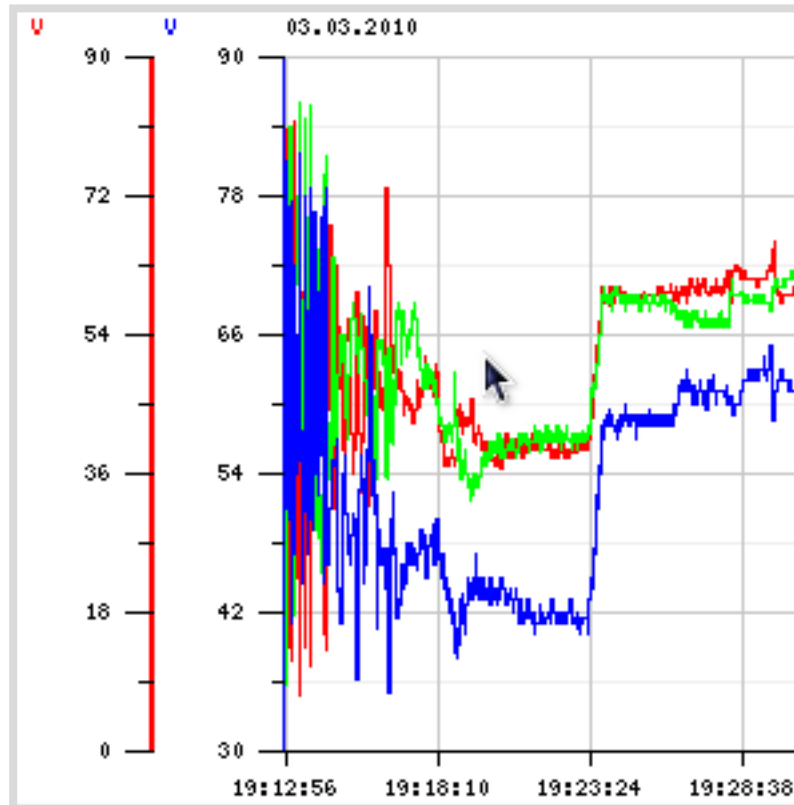▸ Automatic creation of PDF logs and backup on a Network drive

**The following events and values can be defined for a protocol:**

▸ Events including any number of parameters

▸ Alarms/faults

▸ Changes to setpoint specifications

▸ Changes to machine parameters

▸ Any number of freely configurable trends over the protocol period

▸ Any amount of header information on the title page at the start or end of the log (e.g. recipe name or the logged in users on the Panel)

▸ Time-controlled acquisition and difference formation of data values (e.g. display and difference formation of a kWh meter reading at 30-minute intervals)

## TRENDING

▶ Standard trend for each recorded data value in the data archive.

▶ Each user can compile his own trends with each existing data value and save them under his own name.



## ACTUAL VALUE

▶ Any data value can be selected as actual value.

▶ Automatic updating of the value.

▶ Display of the current value is also available on a user-friendly display via a smartphone.

## EVENTS

An event is a recording of a situation signalled by the rising and/or falling edge of a bit. Any data value can be linked to any event as a parameter and recorded. For example, a temperature can be assigned to a fault message.

Any number of definable parameters can be recorded and displayed at the time of an event.

| | | | |
|---|---|---|---|
| ● | 13.06.2018 08:25:42 | Bewegung in Werkstatt | Temperatur im Keller: 21,4 °C |
| ● | 13.06.2018 08:25:38 | Bewegung in Garage | |
| ● | 13.06.2018 08:25:35 | Bewegung in Garage | |
| ● | 13.06.2018 08:25:28 | Bewegung an Treppe | |
| ● | 13.06.2018 08:25:25 | Bewegung vor Haustüre | aTmpHaustüre: 13,8 °C |

## ALARMS/FAULTS

Alarms and faults are listed and handled separately and can be displayed as follows:

▶ All times of starting and ending alarms of a period.

▶ The last occurrence of a specific alarm.

▶ Any faults currently present in the system.

## DATA ARCHIVING

▶ Unlimited number of data values (tags).

▶ Up to 100 values per second.

▶ Data type independent (string, integer, real, byte, bit, text lists).

▶ Special handling of setpoints, machine parameters and current values.

## FREE SELECTION OF THE DISPLAY PERIOD

The data read in

▶ are divided into these segments: Trends, protocol, data archive, events, setpoint, machine value, actual value, alarms/faults.

▶ can be outputted in different time periods, such as: last hour, today, yesterday, this week, last week, this month, last month, this year, last year.

▶ It is also possible to freely define the display period.

▶ A zoom function in the Trends segment and in the data archive helps to take a closer look at conspicuous or interesting places.



## ADDITIONAL FUNCTIONS

▶ Audit Trail

▶ Operating hours counter

▶ Language setting individually expandable (currently 13 different languages, including: Russian, Chinese and variousEuropean languages)

▶ Data export/import

▶ Status display

▶ User administration

▶ System backup + update