

VAPORWARE V2®



Quality Management System and Data Logger

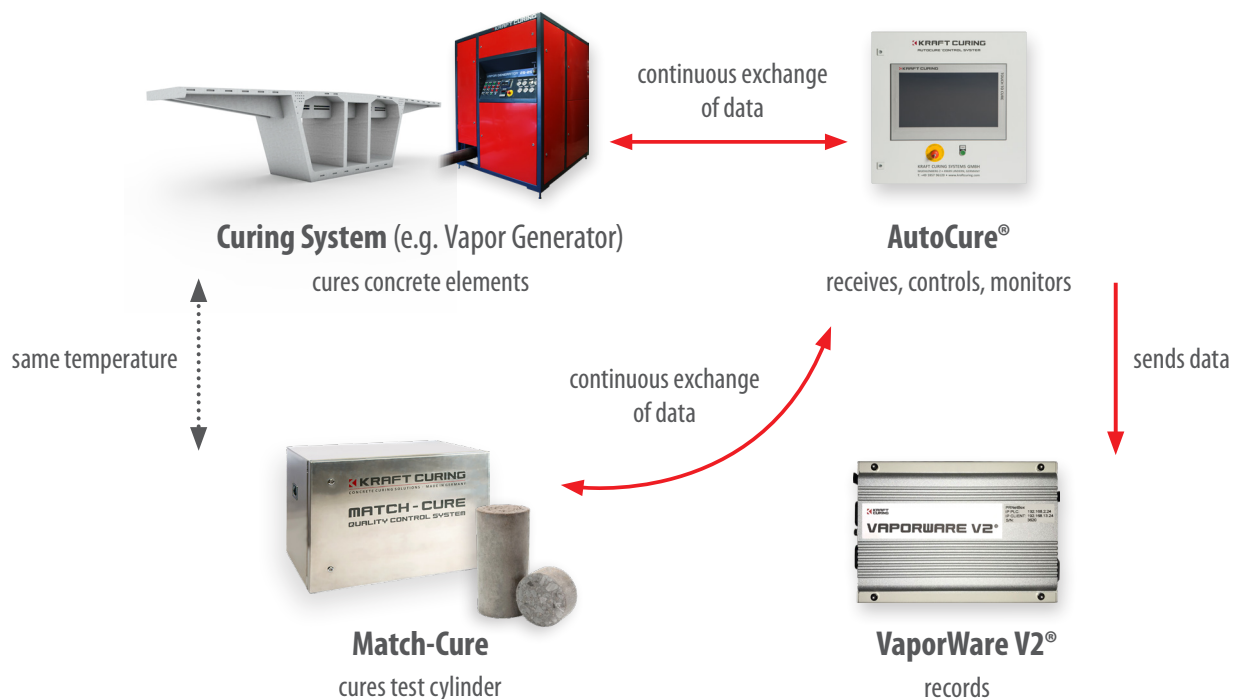
Date: November 2020

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. This way you have your post-treatment protocols ready at 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
- ▶ Company Logo can be added to the Screen Interface



BATCH-REPORTING

- ▶ According to FDA guidelines according to 21 CFR Part 11
(a legal mandate for the implementation of electronic records)
- ▶ 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:

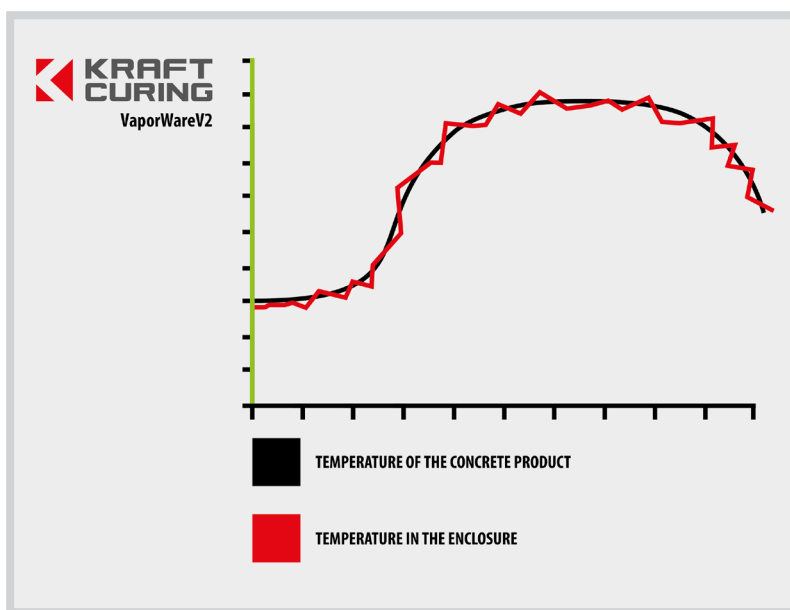
- ▶ Events including any number of parameters and variables
- ▶ Alarms/faults
- ▶ Changes to setpoint specifications
- ▶ Changes to machine specifications
- ▶ Any number of freely configurable trends over the protocol period
- ▶ Any amount of header information on the title page at the start or end of 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)



An example of a batch protocol with multiple events and values, as well as trend curves

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



Recorded data compiled and collected as trends

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.



Remote access via 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 then be 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	±TempHaustüre: 13,8 °C

An example of events being noted and recorded

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 time-period
- ▶ The last occurrence of a specific alarm
- ▶ Any faults and errors 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

- ▶ is divided into these segments: Trends, protocol, data archive, events, setpoint, machine value, actual value, alarms/faults.
- ▶ can be issued 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 areas



How the free selection of data periods is displayed

ADDITIONAL FUNCTIONS

- ▶ Audit Trail
- ▶ Operating hours counter
- ▶ Language settings are individually expandable (currently 13 different languages, including: Russian, Chinese and various European languages)
- ▶ Data export/import
- ▶ Status display
- ▶ User administration
- ▶ System backup + update