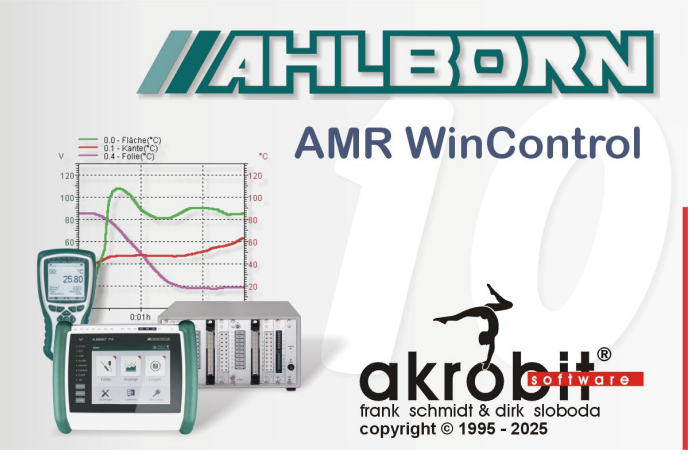
AMR WinControl the software for all ALMEMO® measuring instruments

Software Description:

- Software for acquiring, displaying and processing measured data of the ALMEMO® device series (V5, V6, V7)
- Convenient programming and operation of the devices.
- Graphical display, mathematical processing and printing (measurement report) of current and saved data.
- Appropriate for long term measurements (GMP) or for control and monitoring tasks. Can be easily adapted to every project.
- Fast familiarization and safe operation thanks to Windows interface and the context-sensitive help.
- Further information and the current demo version are available under www.akrobit.de.



Software Versions:		**Order no.**
Light:	For 20 measuring points and one instrument	**SW5600WC1**
Standard:	For any number of measuring points and instruments	**SW5600WC2**
Pro:	For any number of measuring points and instruments, all options included (except Data server, Web server and additional modules)	**SW5600WC3**
Server:	For any number of measuring points and devices, all options included (except add-on modules), with an integrated data server (simultaneous access by several RMT WinControl clients).	**SW5600WC4**
Update:	of the latest software version for older versions	**SW5600WCU3**
	of the latest software version for newer versions	**SW5600WCU4**

Options:	**Order no.**
Network capability (for addressing several ALMEMO® devices)	SW5600WCO1
Automatic generation of measured data files (daily files / weekly files)	SW5600WCO2
Alarm function (alarm record, output to ALMEMO® relays, starting other applications)	SW5600WCO5
Data server	SW5600WCO8
Web server	SW5600WCO9
Extended evaluation functions	SW5600WCO10
Fast scanning of measured values for V7 devices (up to 1000 mops online)	SW5600WCO11
PIMEX Player: combined measured value display and video display	SW5600WCO12

Additional modules:	**Order no.**
Thermal comfort and air-conditioning calculations (as per DIN 1946, EN ISO 7730)	SW 5600 WCZM1
Password protection	SW 5600 WCZM2
Test bench manager (prerequisite: WC3 / WC4 or WC1 / WC2 + WCO2)	SW 5600 WCZM3
Thermal transmittance (U) wizard	SW 5600 WCZM4
Thermal quantity wizard	SW 5600 WCZM5
OPC export	SW 5600 WCZM6
Additional protocol (selectable, requires WC3 / WC4)	SW 5600WCZM7
The memory is read out automatically	SW 5600 WCZM9
Automated printing (line diagrams, tables) (needed: WC3/WC4 or WC1/WC2 + WCO2)	SW5600WCZM10
ODBC-Support (export to SQL-databases)	SW5600WCZM11
Assistant for calibrating measuring sensors (needed: WC3/WC4)	SW5600WCZM12
Assistant for calibrating climate cabinets (needed: WC3/WC4)	SW5600WCZM13
PIMEX Recorder: combined measured value recording and video recording (needed: WC3/WC4)	SW5600WCZM14
Assistant for refrigerant	SW5600WCZM15
Assistant for A0/F0 value	SW5600WCZM16
Assistant for process sequence and setpoint generator (needed: WC3/WC4)	SW5600WCZM17

Complete packages:	**Order no.**
Long-term / continuous monitoring	SW 5600 WCV
CAN Trace: combined measured data recording and CAN data recording as well as evaluation functions	SW5600WCCAN

Hardware copy protection:	**Order no.**
USB dongle	SW 5600 HL
akrobit® license server	SW5600ALS

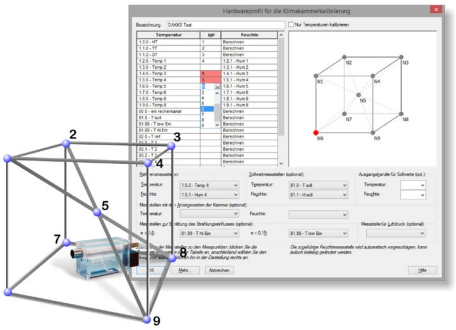
Function overview	WC1	WC2	WC3	WC4	WCV
Measured values - scanning					
Number of measuring points supported	20	unlimited	unlimited	unlimited	unlimited
Number of connections supported	1	unlimited	unlimited	unlimited	unlimited
Support for ALMEMO® network		✓	✓	✓	✓
Fast scanning of measured values for V7 devices (up to 1000 mops online)			✓	✓	✓
Connection types					
Serial (COM), TCP/IP	✓	✓	✓	✓	✓
Modem, GSM, and wireless modem support			✓	✓	✓
Schedule-controlled connection setup			✓	✓	✓
Measured values - display					
Display of measured values (numeric, bar chart, wind rose, round gauges)	✓	✓	✓	✓	✓
Line graph (YT), XY graph	✓	✓	✓	✓	✓
Save / load presentation characteristics as format type	✓	✓	✓	✓	✓
Table, overview	✓	✓	✓	✓	✓
Zoom functions	✓	✓	✓	✓	✓
Project icons	✓	✓	✓	✓	✓
Work surfaces			✓	✓	✓
Measured values - saving					
Saving to hard disk - manual	✓	✓	✓	✓	✓
Saving to hard disk - automatic	✓	✓	✓	✓	✓
Automatic generation of daily, weekly, monthly files			✓	✓	✓
Automatic saving on an event-controlled basis			✓	✓	✓
Automatically saved files - sent by e-mail			✓	✓	✓
Automated printing of files as line diagram or table					✓
Automatically saved files - backed up automatically					✓
Fail-safe (only devices with failsafe mode and internal memory)					✓
Measured values - analysis					
Two measuring cursors with statistics function	✓	✓	✓	✓	✓
Displaying local maximum and minimum values in a line graph			✓	✓	✓
Loading comparative characteristics in a line graph			✓	✓	✓
Arithmetic channels					
Global arithmetic channels	✓	✓	✓	✓	✓
Local arithmetic channels for files already saved	✓	✓	✓	✓	✓
Calculations based on external table values	✓	✓	✓	✓	✓
Formula editor with syntax highlighting	✓	✓	✓	✓	✓
Formula templates for many application cases	✓	✓	✓	✓	✓
Measured values - processing					
Linking /splitting of files	✓	✓	✓	✓	✓
Grouping measured value files in a particular folder (wild card search)			✓	✓	✓
Grouping measured value files over a particular period of time			✓	✓	✓
Exporting measured values					
Clipboard	✓	✓	✓	✓	✓
File formats (MS-Excel XLS / XLSX, TXT / CSV, FAMOS, QS-STAT, DIAdem, binary)	✓	✓	✓	✓	✓
Dynamic data exchange (DDE, OLE)	✓	✓	✓	✓	✓
Online data transmission to MS-Excel	✓	✓	✓	✓	✓
Measured values - import					
ASCII (list, columns, table formats)	✓	✓	✓	✓	✓
ALMEMO® View files	✓	✓	✓	✓	✓
Programming of measuring points and devices					
Programming the characteristics of measuring points and devices	✓	✓	✓	✓	✓
Automated scaling of third-party sensors	✓	✓	✓	✓	✓
Measuring points programming - save to file / load from file	✓	✓	✓	✓	✓

11/2025 • We reserve the right to make technical changes.

Editing the programmed file (similar to Excel tables)	✓	✓	✓	✓	✓
Data reduction					
Averaging function (ONLINE and OFFLINE)	✓	✓	✓	✓	✓
Smoothing (over time / over number of values, ONLINE and OFFLINE)	✓	✓	✓	✓	✓
Data logger functions					
Programming the data logger (including averaging functions)	✓	✓	✓	✓	✓
Read out from device memory (all / selective measured values)	✓	✓	✓	✓	✓
Display of memory occupancy status	✓	✓	✓	✓	✓
Alarm functions					
Alarm value display in measuring points list and in all measured value displays	✓	✓	✓	✓	✓
Alarm report with confirmation and comments text			✓	✓	✓
Events list (audit trail)			✓	✓	✓
Start a program in the event of a particular fault			✓	✓	✓
Send e-mail / SMS in the event of an alarm			✓	✓	✓
Switch ALMEMO® output relays (specific to measuring point)			✓	✓	✓
In case of an alarm, tones and sound recording are played back (via a sound card)			✓	✓	✓
Control commands dependent on measured values (KwikScript)			✓	✓	✓
Advance warning alarm					✓
Alarm log printout					✓
Schedules for alarm processing					✓
Automatic checking of system configuration					✓
Password protection					
Protection against unauthorized access					✓
Protection against operator error by assigning individual access rights					✓
Traceability of activities by means of an events list					✓
Alarm confirmation with user identification					✓
Control and regulation					
Two-point controller with ALMEMO® output relays			✓	✓	✓
Proportional controller with ALMEMO® analog output modules			✓	✓	✓
PID controller with ALMEMO® analog output modules and arithmetic channels			✓	✓	✓
Automation by means of user-defined operating controls					
Keys and buttons in project icons and as a toolbar	✓	✓	✓	✓	✓
Setting constants	✓	✓	✓	✓	✓
Starting / stopping a measuring operation	✓	✓	✓	✓	✓
Switching relays			✓	✓	✓
Setting analog output values			✓	✓	✓
Configuration management					
Save / load interface configuration		✓	✓	✓	✓
Printout					
Diagrams, meas. value tables, meas. point list, file overview including comments	✓	✓	✓	✓	✓
Network server functions					
Displaying measured values and diagrams on Intranet or Internet				✓	✓
Embedding diagrams and project icons on your own Internet pages				✓	✓
Accessing the integrated web server via any browser				✓	✓
Accessing measured data and history data via TCP/IP (open text protocol)				✓	✓
Forwarding measured data to RMT WinControl				✓	✓
Availability of already acquired measured data even after program restart				✓	✓
Alarm confirmation via web server					✓

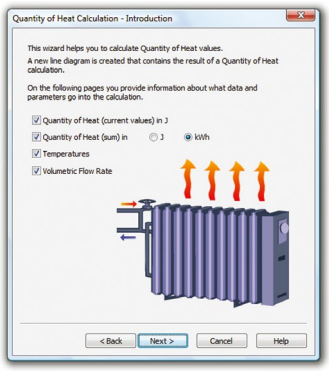
After initial installation AMR WinControl will run in demo mode - comprising the full functionality of the professional version (WC3) - for a trial period of 30 days, after which time it will have to be registered. All the functions incorporated in the professional version can be tried without restriction and without engagement. If further functions (additional modules) are needed for test purposes, these can also be enabled on a temporary basis. Users can thus try the software for the duration of the trial period with the full range of functions normally needed and then place an order after the system has been running to their complete satisfaction. Registration does not need reinstallation.

Assistant for the calibration of climate chambers



- Calibration according to guideline DAkkS-DKD-R 5-7
- Support of methods A and B with 9 and more measuring points
- Fully automatic calibration over any number of temperature and humidity steps with stability criterion
- Direct integration of climate chambers (Weiss/Vötsch, CTS, Memmert, Binder, ESPEC, ATT and Feutron) for setpoint specification and measured value recording
- Online visualization of the calibration process for all measuring points
- Calculation of the local humidity at the temperature measuring points, taking air pressure and dew point into account
- Additional support for dew point mirrors from MBW, DewMaster, DewTrans and Michell
- Automatic creation of a complete Excel report with all measured values, measurement uncertainties and measurement uncertainty budgets
- Excel report template can be easily customized by the user to suit their needs

Thermal quantity wizard



- The thermal quantity is calculated automatically from the volume flow and the temperature difference.
- You can enter settings easily and conveniently using the wizard.
- Data tables for water are included in delivery; users can define their own extensions for other media themselves.
- The thermal quantity can be calculated in real time or on the basis of existing measured value files.

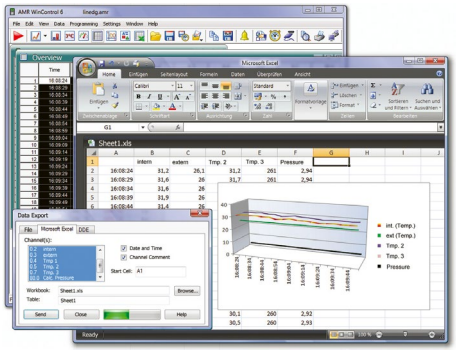
$$\delta Q = c_v \cdot m \cdot dT$$

Password protection



- Thanks to the integrated user management system, unauthorized access to AMR WinControl is impossible. This policy reduces the security risks to a minimum.
- Every change of user is logged in the events list for subsequent evaluation.
- Access rights can be defined individually per user or can be copied.
- Authentication can be done as WinControl user or Windows user (local or Active Directory). Windows groups are supported.
- Access limitations can be defined for every single program feature.
- Alarm confirmations can be assigned unequivocally to particular users.
- The password protection is the minimum requirement for the system validation according to FDA 21 CFR Part 11.

Data Export



- The data files can be, Online and/or at any later point in time, stored in the following formats Excel (XLS / XLSX), ASCII (TXT / CSV), WK1, FAMOS, QS-STAT, DIAdem.
- With ODBC measured data can be exported in SQL databases (structured query language). This supports all data sources for which an ODBC driver is installed and set up on the system.
- The line and XY diagrams and the tables can be copied to the clipboard and, for example, be inserted into a protocol text.
- Via dynamic data exchange (DDE) it is possible to transfer measured values Online to other applications, for example MS-EXCEL.
- Furthermore, line diagrams can be embedded into text documents (e.g. a MS Word document) via the OLE function.

11/2025 • We reserve the right to make technical changes.