



Efficient programming, configuration, commissioning and control of technical installations in building with Saia PG5® DDC.Plus automation objects and templates

For speed and comfort in engineering the technical systems of buildings, consistency is required in the automation objects used at the functional, control and management levels.

The two automation libraries «HeaVAC» and «DDC-Suite» form the basis of object structure. These libraries are made up of ready-made function objects called FBoxes (e.g. representing a fan motor or reheater) so that user programs can be created and their parameters set individually.

Control objects for Saia PCD® Text-Panels, Saia PCD® Web-Panels and the Saia PCD® management system coordinate with the function library and can be used to create control concepts that meet customer requirements.

Consistency among all available objects ensures program quality in installations and minimizes the costs of program writing and service.

Features

- ▶ Automation objects that suit HeaVAC-specific installations
- ▶ Function objects for creating the user program
- ▶ Control objects that coordinate with the Saia PG5® HMI-Editor for text-oriented control panels
- ▶ Graphics and control objects that coordinate with the Saia PG5® Web-Editor for web-based control panels
- ▶ Graphics and control objects that coordinate with the Saia Visi.Plus management system
- ▶ Consistency throughout windows used to set and adjust parameters of all objects.
- ▶ Easy symbol and resource assignment with group addressing
- ▶ Complete system templates for the commonest applications, e.g. heating circuit, boiler, hot water tank, ventilation systems
- ▶ All templates are adaptable to individual use
- ▶ Web-Panel templates available with 2D or 3D visual effects
- ▶ Considerable reduction of programming time for system program and entire user prompting

Function library for Saia PCD/PCS systems

Comprehensive HeaVAC and DDCSuite libraries provide system integrators with a basis on which to build fast, efficient, customer-specific system programs. Ready-made system components are encapsulated as function objects in these libraries. Their parameters can be set and adjusted with the appropriate configuration and adjustment windows. Such objects as, for example, a fan motor will include all necessary functions: enable; operating status; service and error messages; and the capture of switching cycles and running

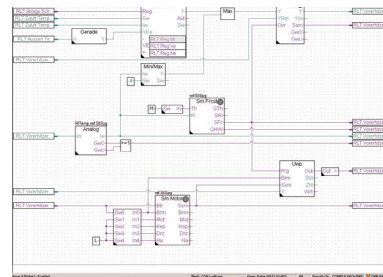
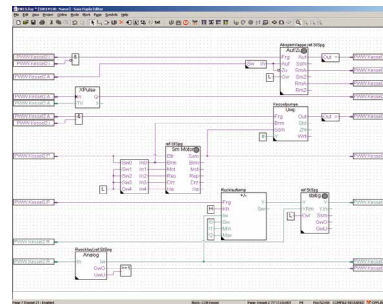
times. Through group addressing, fast error-free links can be made to user prompting and visualization. To simplify the construction of complete sections of an installation, the library also includes system templates, e.g. for the heating circuit, water heater, boiler and ventilation systems.



PG5
Programming and configuration tool



Function box for motor control with parameter window



System templates

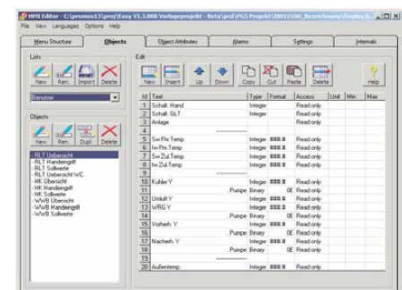
DDC-Suite features

This library differs from the HeaVAC library in the strictness of its attention to a high level of integration for individual, HeaVAC-specific functions. Moreover, from version 2.0 it has also been possible to add: the automatic set-up of offline trend tracking, generation of Web-Panel-compatible alarm entry, automatic construction of BACnet objects, and automatic editing of customer documentation.

Text-Panel library for user prompting on text-oriented control panels



HMI-Editor
User prompting with Text-Panels



Control object for text-oriented control panel

System integrators can use this library to build customer-specific user prompting for Saia PCD® Text-Panels. These control objects can be used to adjust all necessary parameters, such as

set-points and time-switch functions, in accordance with the technical realities of an installation.

All object templates are also supplied in source code. Users can adapt the structure and text of templates to the customer's needs, as required.

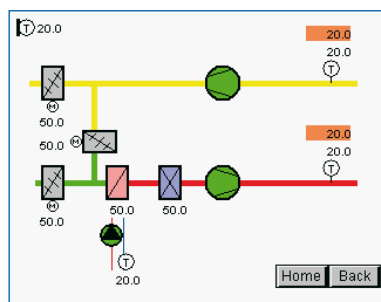
Web-Panel library for user prompting on web-based control panels

For perfect adaptation of the comprehensive Saia PCD® Web-Panel range to the requirements of a building's technical systems, a library of graphics and control objects has been developed with a regard to demands for engineering efficiency. Since all control objects have a parameter structure that matches the function library, very fast linking of automation objects or entire automation templates is possible through group addresses in the user program. The control objects comprise the graphical symbol in 2D or 3D format and a corresponding adjust window, through which object parameters are configured. Alongside the control objects themselves, the graphically oriented «Saia PG5® Web-Editor» configuration software also includes all the control templates that users find in the function library.

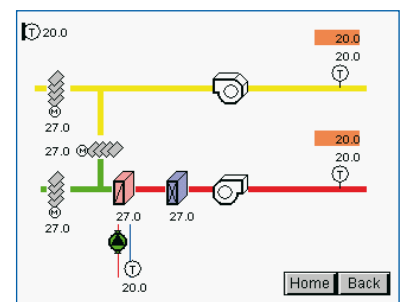


ETA	● Motor
EHA	● Malfunction or locked
SUP	● Maintenance necessary
Preselection Speed 1	
Operations 24	
Hours 136	
Object control window	

Graphical object: fan



2D template for ventilation system



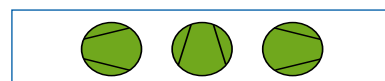
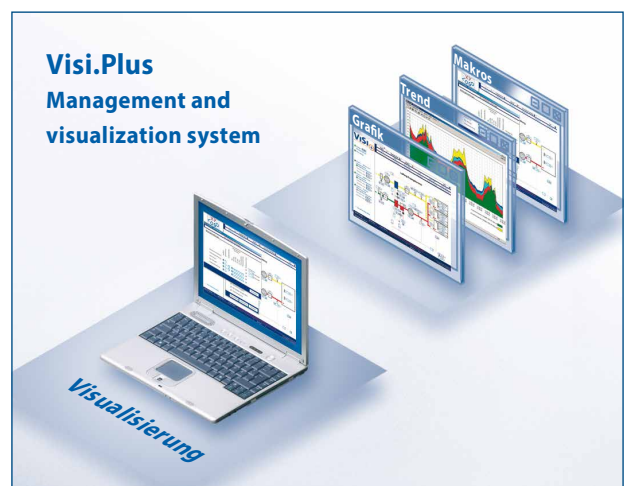
3D template for ventilation system

Visi.Plus library for the operation and management of a building's technical systems

To ensure consistency, all graphics and control objects have also been created for the Saia Visi.Plus building management system. A built-in mechanism allows all objects used in a project to be ported to this management system. It dispenses with the laborious assigning of individual resources, a process in which errors can occur. As with the Web-Panel library, here too objects consist of graphical symbols and the appropriate parameter windows.

System integrators can use the ready-made automation templates (e.g. for the heating circuit, water heater, boiler and ventilation systems) to build complete installations and adapt them to the customer's wishes very speedily.

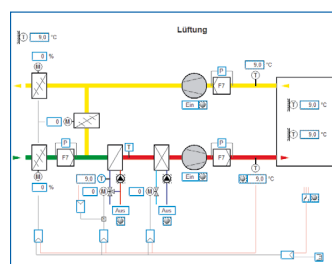
For uniform structuring of the complete project, navigation pages are available that can be used to configure project navigation as a whole at the click of a mouse.



Graphical object: fan

A screenshot of the Visi.Plus software interface showing a navigation menu. It lists various system components and their status, with checkboxes for selection.

Navigation page



Control template

A screenshot of the 'Mo SteMotor Info' object control window. It displays 'Motorzustand' (Motor status) with options for 'Aus' (Off), 'Automatik' (Automatic), and 'Ein' (On). It also shows 'Betriebswerte' (Operating values) such as 'Starterverzögerung' (Starter delay) and 'Wartung nach jeweils' (Maintenance after each) with numerical input fields.


Object control window

Customer benefit

With Saia PG5® DDC-Plus automation objects and automation templates, the technical systems of a building can be programmed, parameters set, then operated, monitored and managed consistently across all levels. Make these advantages work for you! Minimize engineering costs and raise the quality of your systems at the same time.

Overview of DDC-Plus automation objects

	Saia PG5® Core Package	Saia PG5® HVAC Package	Saia PG5® Extended Package	
	Standard library	HeaVAC library	HLK- library	DDC-Suite library
PG5				
Function objects	X	✓	✓	✓
HMI-Editor Control objects	X	✓	✓	✓
Web-Editor Graphics & control objects	X	✓	✓	✓
Visi-Plus Graphics & control objects	X	✓	✓	✓



Ordering information

Saia PG5® programming tool

Saia PG5® Core Package

Programming software with editors (IL, Fupla, Graftec), network configurators, standard libraries (Analog, Communication, Arithmetic & Logic), application libraries (Alarming, Blinds-Lighting, E-Mail, Trending [HDLog], Energy Meter, DALI, Modbus, EIB, EnOcean, JCI N2-Bus), Web Editor and FBox Builder (basic version)

PG5 – Core Package

PG5 – Building Standard Package (building automation)

Same as Saia PG5® Core Package and associated libraries (HVAC, Belimo MP-Bus, LonWORKS, Room controllers and Modem), BACnet

PG5 – HVAC Package

PG5 – Building Advanced Package (building automation)

Same as Saia PG5® HVAC Package and associated DDC Suite library

PG5 – Extended Package

Saia PG5® options – Add-on libraries

PG5 – HVAC Library

HVAC Library for building automation

PG5 – HVAC

PG5 – DDC-Suite Library

Advanced library for building automation including all system objects for Fupla, HMI-Editor, Web-Editor and Visi.Plus

PG5 – DDC-Suite

PG5 – Web-Editor («Basic Version»)

Software package for Saia PCD® Web control panels including all system macros

PG5 Web Editor
«basic version»

Saia-Burgess Controls AG

Bahnhofstrasse 18 | 3280 Murten, Schweiz
T +41 26 672 72 72 | F +41 26 672 74 99
www.saia-pcd.com

support@saia-pcd.com | www.sbc-support.com