



SICLIMAT™ X

## Engineering tool Software X-PG V41

## X-PG-SW

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Engineering tool X-PG to generate SICLIMAT automation software for the automation stations SIMATIC S7-300 and S7-400. The software is delivered on data media and can be installed on available SIMATIC programming device Power-PG or on a professional notebook.

The software package X-PG installs the engineering tool X-PG on an existing programming device or professional notebook.

The engineering tool X-PG offers a complete solution for engineering and commissioning SICLIMAT automation stations SIMATIC S7-300 and S7-400. The X-PG is especially well suited as an engineering tool when flexible on-site use is required or when the SICLIMAT automation station is operated stand-alone or networked with operation/monitoring/reporting (e.g. locally using the SICLIMAT TP177).

The software package includes the SICLIMAT engineering tool AS engineering and the block libraries. The SICLIMAT packages are designed functionally and in application to meet the needs of building automation and control.

You can efficiently and securely generate and commission all the SICLIMAT automation software using the software package X-PG and the STEP 7 toolset (not included in the software package).

## Software

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The following software packages are installed and ready for operation when used as SICLIMAT engineering tool:

- SICLIMAT AS engineering for graphical engineering and testing of automation station software using SICLIMAT blocks. In addition to the automation software, the engineering data for the touch panel SICLIMAT TP177 or the DESIGO INSIGHT building automation and control system or SICLIMAT X is generated.
- SICLIMAT standard block library for complex, networked building automation and control plants with optional connection to SICLIMAT X or DESIGO INSIGHT.
- HVAC Lite Library, the new block library for simpler building automation and control plants using SICLIMAT TP177 but without connection to SICLIMAT X.

The SICLIMAT AS Engineering software package is used to create and test automation station software with SICLIMAT standard blocks or the HVAC Lite Library. The program offers a menu-based graphical interface for creating block software. Blocks are positioned with the mouse on the graphical interface and parameterized or interconnected (technology chart). Software generation is hierarchically structured and comfortable copy, drag and delete functions result in efficient engineering. An online test function allows the display of dynamic process values directly in the technology chart. Thanks to block technology and corresponding plausibility tests, there is no special knowledge required for SIMATIC structures, data maintenance, commands, etc. allowing engineering personnel to fully concentrate on the technological task at hand. In addition to automation software, AS Engineering can be used to create engineering data for the SICLIMAT TP177 touch panel, the SICLIMAT X automation and control system or third-party products such as SCADA systems.

Building automation and control tasks are solved with the aid of both block libraries. The user receives a package of specially designed building automation and control software blocks for all aspects of building automation and control. In addition to universally employable functions such as binary processing, analog processing, control and signal processing, this includes complex technical building functions such as scheduling, twin pump control, heating curve. The standard block SICLIMAT library includes optimization functions such as heating time optimization, heat volume calculation, enthalpy calculation, summer night ventilation.

LINUX is the operating system for the SICLIMAT engineering tool. An Oracle database is used to archive and administer data. VMware allows the SICLIMAT engineering tool to operate in its own pane under Windows, making it possible to switch between the two operating systems with a simple click of the mouse.

## Hardware requirements

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Reference hardware:

1. SIMATIC programming device Power-PG.
2. Fujitsu Siemens notebook Lifebook S.

The following hardware requirements must be met when using other devices:

	Minimum requirements	Recommended
CPU frequency	800 MHz	> 1.2 GHz
Monitor	1024 x 768	> 1280 x 1024
RAM	512 MB	> 1 GB
Available disk space	4 GB	> 100 GB
Diskette drive 3.5 "	Yes	Yes
Optical drive	CD-ROM	DVD/CD-R/W
Interfaces	Serial, MPI or USB Parallel or USB	Ethernet, 2 x USB
Operating system	Windows XP Prof	Windows XP Prof

## Accessories

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### **Accessory: Dongle**

A USB or parallel dongle is required depending on the device features. A printer cannot be operated when the parallel dongle is attached.

### **Accessory: VMware Workstation 6.0**

The software package VMware Workstation 6.0 allows LINUX operating system to operate in a pane under Windows and is always required when the device is used as a Windows Office PC or together with STEP 7.

### **Accessory: STEP 7**

**We recommend installing the STEP 7 package when using the X-PG to load and test the automation station as well. This allows all the engineering to take place on one device.**

**Accessory: USB adapter**

An MPI interface is required to load and test SIMATIC S7. Depending on the device, this may be accomplished as a PCI component, PCMCIA card, serial adapter or as a USB adapter. We recommend using the USB adapter, if the MPI interface is not already available.

**Accessories: Runtime license for SICLIMAT standard blocks**

License for the one-time use of blocks from the SICLIMAT block library on one automation station.

**Accessories: Runtime license for HVAC Lite Library**

License for the one-time use of blocks from the HVAC Lite Library on one automation station.

**Accessories: SIMATIC products from the Catalog CA01**

Softnet S7: Software package for accessing the automation station via Ethernet

Communication processors: CP 343-1 and CP443-1 for SIMATIC S7

STEP 7: Software package to engineer SIMATIC S7

EPROM adapter and deleting device for older SIMATIC S7

**Ordering**

When ordering, please specify the quantity, product name, and type code.

<i>Type</i>	<i>Order number</i>
<b>Software engineering tool X-PG</b>	<b>6FLXPGSW-EXT41</b>

Accessory: Dongle always required.

<i>Type</i>	<i>Order number</i>
<b>USB dongle or</b>	<b>6FLXPGDON-USB</b>
<b>Parallel dongle</b>	<b>6FLXPGDON-LPT</b>

Accessory: Required if not already available.

<i>Type</i>	<i>Order number</i>
<b>VMware Workstation 6.0</b>	<b>VAZ:60.6L.VMW1154</b>
<b>STEP 7 V5.4 SP3</b>	<b>6ES7810-4CC08-0YA5</b>
<b>USB adapter</b>	<b>6ES7972-0CB20-0XA0</b>

**Technical data**

	<b>Type</b>	<b>X-PG</b>
Software, scope	Guest operating system for SICLIMAT EM	LINUX
	Database	Oracle Workgroup Server
	X-PG Software	SICLIMAT EM V4.1
	Delivered on	Data CD, DVD and floppy disk