



SICLIMAT™ X

OPC Client for SICLIMAT X**OPC**

The use of an OPC Client enables variables from third-party controllers with access to an OPC server to be made available in SICLIMAT X. In addition, any variables from SIMATIC S5 and S7 controllers which were not engineered with the Engineering Manager utility can also be made available in SICLIMAT X.

Application

The OPC Client (OLE for Process Control) ensures continuity between the automation products of different manufacturers, based on the OPC standard.

This permits affordable operation and monitoring of third-party data points, SIMATIC S5/S7 (where not engineered in SICLIMAT X), fire detection systems etc., and the connection of various building services (smoke and heat extraction systems, air curtains, sump pumps, compressed air etc.) with types of DDC technology to the building management system.

OPC is the industry communication standard.

Many suppliers in this market provide OPC drivers for their systems.

Features

- Supports OPC DA 2.05 (data access)
- Supports the following types of access: Subscribe/unsubscribe OPC items (no polling);
read/write single OPC items – read from cache/device
- Supports the following objects: VT_Bool, VT_I1, VT_I2, VT_I4, VT_UI1, VT_UI2, VT_UI4, VT_R4, VT_R8, VT_Array
- INVERS For inversion of a Boolean function
- NORMAL Cancels an existing INVERS operation.
- ABS Generates the absolute value
- BIAS val Shifts the value received by the amount defined by the transmitted parameter
- BIT start len Cuts out a bit-field from the transmitted value
- BITPOS start len From the value received, cuts out and right-justifies a bit field of length len, starting from "BIT start".
- KEHRWERT Generates the reciprocal value
- SWAP mode Swaps individual bytes in the word received
- KH u_sicx o_sicx l_ag h_ag
is the classic characteristic for the units of measurement in SIMATIC S5. u_sicx and o_sicx are the high and low limits of the associated final value.
- Data points integrated via OPC can be processed in the system in the same way as normal SICLIMAT X data points.
 - Display
 - Alarms
 - Reporting
 - TECLA centralized event switching
 - Centralized time switching
 - Archiving
 - Trend logging
- New, simple SICLIMAT X objects (NOBIs), equivalent to the simple OPC Items, are supplied with OPC Client
 - OPC-DIG2, OPC-DIG2 RO Boolean operation
 - OPC-DIG2, OPC-DIG2 RO 4-bit variable
 - OPC-DIG16, OPC-DIG16 RO 16-bit variable
 - OPC-Float, OPC-Float RO Analog variable
 - OPC-UNIT
OPC integer
Positive numbers only
 - OPC-INT
OPC integer, full numerical range
- And simple compound blocks (NOBIs)
 - OPC-SB01, 03, 15 OPC switching command
 - OPC-SoI Simple OPC setpoint/position command
 - OPC-Mess Simple OPC measured value with one pair of limit values

- OPC server and client can be installed on the same hardware
- The OPC server must provide access to an Excel list
- Quantities:
 - Max. 20,000 OPC items per OPC Client
 - Max. 10 OPC servers per OPC Client
 - The following additional constraints apply:
 - Maximum 18,000 data points per X OS
 - Maximum 7 PCCs per X OS
 - Each OPC Client is equivalent to 1 PCC
- The OPC Client runs on MS Windows 2000 and Windows XP in conjunction with SICLIMAT X V4.0 (Linux)

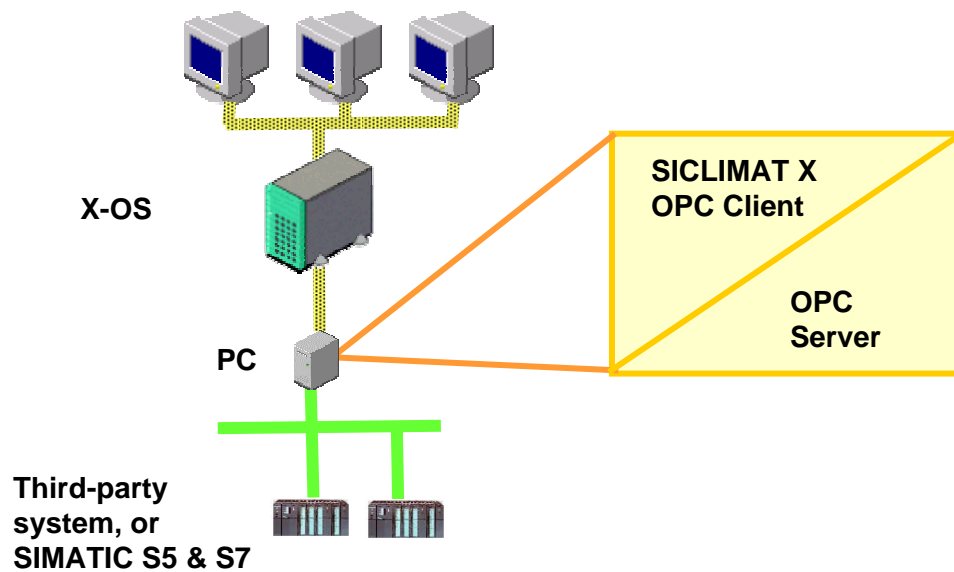
Ordering

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

Type	Order No.
OPC Client for 1,000 OPC items	6FLOPC-1000
OPC Client for 4,000 OPC items	6FLOPC-4000
OPC Client for 20,000 OPC items	6FLOPC-20000

Example of configuration

OPC Client for SICLIMAT X can run on the same hardware as the third-party OPC server, or on a separate Windows PC.



Note

There is also an OPC server solution for SICLIMAT X. This is a cost-effective way of connecting SICLIMAT X to a higher-level management system for the operation and monitoring of selected data points, and for signaling. Can be ordered on request.

