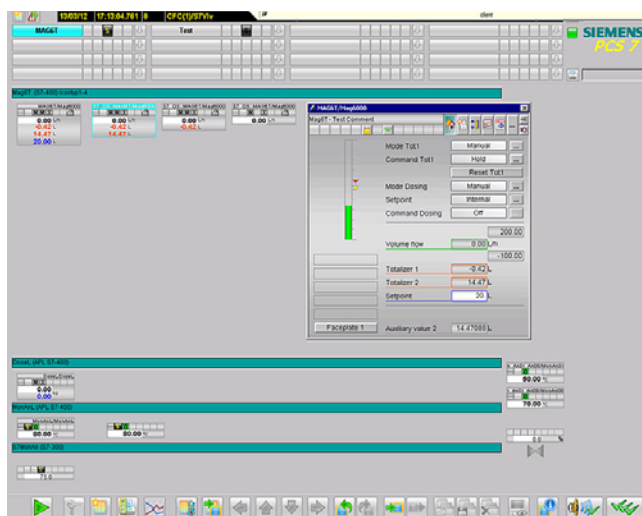# Digitalization and Communication
Field Device Instrumentation

SITRANS Library

Overview

The SITRANS Library for SIMATIC PCS 7 V8.0 and higher extends the standard functionality of the SIMATIC PCS 7 process control system concentrated in the SIMATIC PCS 7 Advanced Process Library (APL) with technological blocks and faceplates for device-specific functions of the SITRANS field devices.

Benefits

The SITRANS Library allows you to easily operate all device functions, such as the dosing of the SITRANS F M MAG6000, in a single faceplate. It also supports operator control and monitoring via Touch Panels as well as the integration of SIMATIC S 7 applications (only SITRANS F M MAG6000). The SITRANS Library is based on the modern design of the Advanced Process Library (APL). Together with the APL, the SITRANS Library enables you to create harmonic overall solutions with a consistent look & feel and optimum use of the functions of the SITRANS field devices in many industries.

It helps accelerate the engineering process, reduces the time-to-market, and simplifies process control. In addition, operator functions (such as "dosing") and process-related diagnostic information (such as empty pipe detection and flow direction) are provided.

Note:

SITRANS Library can only be used in combination with SIMATIC PCS 7 V8.0 or higher.

Application

The SITRANS Library is best used in combination with SIMATIC PCS 7 and SITRANS field devices.

A current list of SITRANS field devices and the supported SIMATIC PCS 7 versions is available at
https://support.industry.siemens.com/cs/ww/de/view/85285872

The SITRANS Library can be used for all core sectors of the process industry. These are:
- Chemical industry
- Pharmaceutical industry
- Water and wastewater
- Glass and solar
- Oil & gas
- Food and beverage industry
- Minerals and mining

Design

The product structure is geared toward the operational environment in the SIMATIC PCS 7 process control system. Consequently, SITRANS Library is offered in the form of an engineering component:
- SITRANS Library engineering software with engineering license
- SITRANS Library Runtime license for one automation project (SIMATIC PCS 7 automation systems of all designs and S7-300 controllers)

The SITRANS Library product component enables you to perform configuration work on a SIMATIC PCS 7 engineering station.

The SITRANS Library product component allows you to run blocks from a library on an automation system.

When using function blocks from SITRANS Library in SIMATIC PC 7 automation systems, please note that SIMATIC PCS 7 AS Runtime POs are also booked.

Function

SITRANS Library for SIMATIC PCS 7/SIMATIC S7

Sublibrary for the functional expansion of the SIMATIC PCS 7 Advanced Process Library with:
- Function blocks and faceplates for SITRANS field devices
- Function blocks and faceplates for SITRANS field devices for S7-400 and SIMATIC S7-300 with WinCC

The function blocks are configured in CFC.

Operator control and monitoring from a panel is configured with the panel interface blocks for the SITRANS F M MAG 6000 DP. Taking operating rights and hierarchical operating concepts (multi-control room operation) into consideration, the technological function can then be operated from both an operator station and a Touch Panel.

For detailed information on which field devices, which systems and system versions are supported as well as on the free download, see:

https://support.industry.siemens.com/cs/ww/de/view/85285872

Selection and ordering data   Article No.

SITRANS Library	7MP2990-0AA00
Block library for SIMATIC PCS 7 as of V8.0 and SIMATIC S7 with function blocks and faceplates as well as electronic documentation	
Engineering software, software class A, two languages (English, German), can be run under the following operating systems:	
• Windows XP Professional 32 bit	
• Windows 7 Ultimate 32/64 bit	
• Windows Server 2003 R2 Standard 32-bit	
• Windows Server 2008 R2 Standard 64-bit	
Engineering license for one customer plant Type of delivery: free download	