S7-VISU

Web Visualization in a connector for S7-300/400-PLCs

- Upgrades a Profibus/MPI-capable-SIMATIC S7®System into a fully featured Visualization and Control System

- Visualizes thanks Web Technique platformneutral and free of charge with standard Web

- Imports symbols and variables time efficient directly from a STEP 7-project

- Guarantees fast output at minimum eort due to intuitive Point and Click Engineering Tool

Visualizing most exible and economically over Web Browsers

The Web Visualization in the connector allows to operate and monitor SIMATIC S7® controlled applications over the Web. The device links to the PLC with Profibus or MPI. The bus connector is looped through to allow seamless integration and into existing Profibus/MPI installations. The device can be powered from external supply with 24 Volts or directly over the S7 PLC connector.

The whole visualization project is stored in the connector without consuming any ressources of the PLC and best for retrofit projects. The Web Visualization manages the pages with no need for plugins such as ActiveX®, Flash®, Java® or Silverlight™ and can be executed by all leading Web Browsers. Visualizations can be displayed and accessed on any Windows®/ Linux PC based system as well as such on tablets and smartphones with browser support. The simultaneous access of multiple browsers at a time is also supported.

Although native Web Technology is being used there is no HTML code programming necessary. Front end creation as well as the dynamizations of the visualizing elements are easily and quickly configured with a few mouse clicks. Color change, movement, scaling, user rights, the support of all common graphic formats and multilingualism are standard. Next to monitoring online data, Alarming with Acknowledgment and Data Trending are supported. For best visual effects a large catalogue of high-quality graphics from the industrial sector is optionally available as library.

Technical Data

Parameter	Value
Processor	netX 50
Power Supply	18 … 30 V / ca. 60 mA @ 24 V
Supply Connection	Mini-COMBICON 2-pin or DSub-9
Ethernet Connection	1 x Rj45
Ethernet	10/100 Base-TX Ethernet
Profibus / MPI Connection	DSub-9 pinout in acc. with IEC 61158
Baud Rate	9,6kBaud ... 12 MBaud, automatic detection
LED Indicators	SYS, COM, ACT, LNK
Operating Temperature	0 … 50 °C
Dimensions (L x W x H)	65 mm x 48 mm x 16 mm
Weight	approx. 40 g
Protection Class	Ip20
Mounting	Directly on PLC / On any free bus connector
EG Conformity	Directive 2004/108/EG
Real Time Clock	software supported, precision 50ppm
Real Time Clock buffering	none
Clock Synchronization	Manually / Cyclically over SNTP protocol
Web Application Memory	3,5 MByte, non-volatile FLASH memory
Trending Memory	2 Mbyte, volatile RAM memory

Parameter	Value
PLC Type	SIMATIC S7 300,400 CPUs/CPs with Profibus/MPI connentivity
Profibus/MPI connections	To 32 PLCs simultaneously
SNTP-Client	RFC 2030, Port 123,Time synchronization
FTP-Server	RFC 959, Port 21
HTTP-Server	RFC 2616 HTTP/1.1, Port 80
Supported Browsers	Internet Explorer 8/9/10, Mozill Firefox 24; Safari 5.1.7, Chrome 31, Opera 16.0, Blackberry 6 oder 10 with min.3 simultaneous active connections
Web Visualization	atvise® webMI by CERTEC
Engineering Tool	atvise builder, Multi-User License, for free
Variables/Data Points	unlimited
Web Memory Consumption	200kByte per page, typically
Standard Functions	Alarm, Trend and User Management
Adaptability	entirely customizable using Java Scripting
Multilingualism	yes, german /english as default language
Trend variables	32 max., sampl. rate 200 msec. to 24 hours
Recording Time	8 Variables @60 secs. rate = 11 days
	18Variables @1 hour rate = 300 days

Overview

Article	Article Number	Article Description
S7-VISU	9353-S7-VISU	Web Visualization in a connector for S7 300/400 PLCs
ATVISE ELEMENTS	9353-AE	Vector Graphics Library with over 4000 images of the Industrial Sector