





Liquid





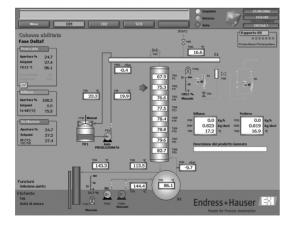
Technical Information

ControlCare - P View SPV200

Scalable SCADA solution Web-based automation software







Application

P View is a powerful PC-based visualization program that operates via OPC servers with HART[®], Modbus, PROFIBUS[®], FOUNDATION FieldbusTM and many other industrial communication protocols. It supports standalone application, client-server operation and Web Access.

P View is part of the Endress+Hauser ControlCare system platform, which also includes e.g. Fieldgates and Field Controllers. It serves as a platform for Endress+Hauser engineered process solutions.

Together with FieldCare, the Endress+Hauser Plant Asset Management Tool, which can easily be integrated into your visualization, you are able to configure and adjust any device parameter. This optional software can be invoked directly from the Graphical User Interface.

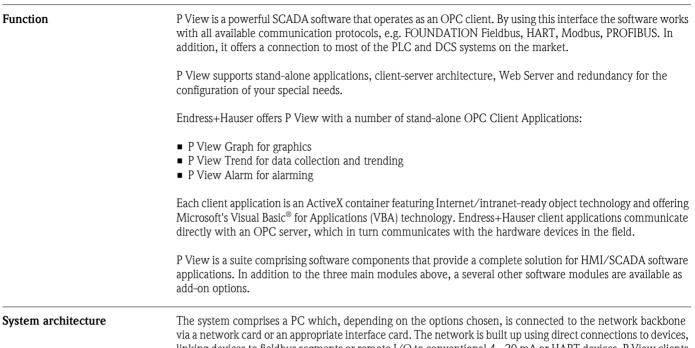
P View offers all the possibilities of modern, graphical process visualization.

Features and Benefits

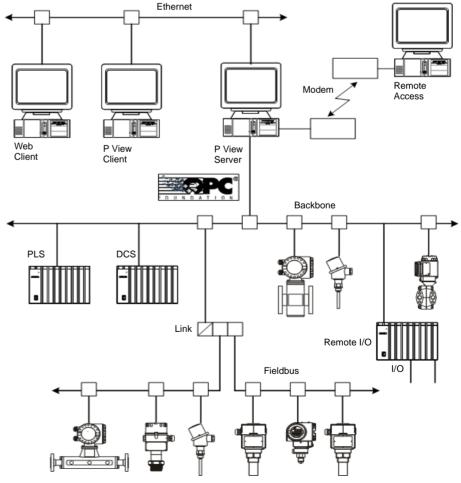
- High-level User Management to protect your plant and application from unauthorised access
- Logging of user actions conforms to requirements of regulated industries (FDA21 CFR11 electronic signature and EU 178 traceability directives)
- Process graphics give general and detail views tailored to your requirements
- Screens in local language increase operational safety
- P View Alarm monitors signals, provides an alarm log and indicates actions where appropriate, e.g. sends an SMS or e-mail
- P View Trend stores process variables for trending and historical analysis
- WebHMI allows flexibility and economy in the design of HMI architecture
- Open standards ensure simple integration and freedom of choice in control equipment
- Optional device configuration (FieldCare) allows the management of Endress+Hauser and third-party devices from operating screens



Function and System Design



via a network card or an appropriate interface card. The network is built up using direct connections to devices, linking devices to fieldbus segments or remote I/O to conventional 4...20 mA or HART devices. P View clients and Web Clients can be installed at different locations via Ethernet. An optional modem connection allows remote operation and diagnosis.



System architecture for P View

Additional operating stations

P View allows additional operating stations (clients) to be connected to the central monitoring station (server). Client-server connections are done via Ethernet. There are two types of client available, fat and lean, whereby it is possible to have both in the monitoring system. The clients have to be purchased together with P View basic package. A later extension of P View is possible.

P View Client

Client stations are connected via Ethernet. They give direct access to the server station and there is no limitation on the number of I/Os nor on the functionality. Clients work with a subset of the P View software but without local OPC data.

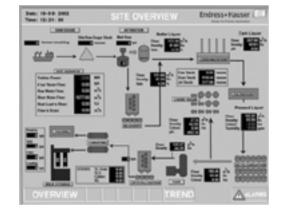
Web Client

As P View has an integrated Web Server connections can be made via Internet Explorer from anywhere in the world to the application running on the server station. The connection can be protected with firewalls and other security mechanisms. There is no special software needed on the client side. The standard internet tools offer the functionality required on the P View server. Only VBA script has to be transformed in VB scripts to run on the Internet.

Human Interface

Operation	 Visualization and data archiving via P View software components Optional configuration of devices by invoking FieldCare device operation software Optional W@M connectivity (Web-enabled Asset Management) Connection to Microsoft[®] Office[®] applications
Remote operation	Optional remote operation via Ethernet, with the full functionality on every station including alarms, trend and language switching.
Examples of screens	

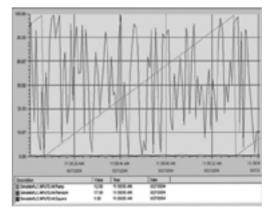
mples of screens





Application overview / Detail view

	7.838.14			the state	1	- 10			- Kin Operation
	1 2 8 38 No.			aubanana	÷.		-		- Not-Specifi
	2.10.00.00	a tura		langenturs	~	54	141.1	Orage Boot	- Rot-Operation
1146.1	17.00.300.40.4		Table ROCKER	A dia Land		74	1	Charge Line	And in such
1000	THE OWNER OF	11111	APPENDIX NUMBER	10000	in a		1000		10000
1147.5	27.00.300.Aut	lorger in	at acceptable level . A	in luga	1	80	194	- Cont	- Not-Specifi
100.000	20.0.111		A COLUMN	11000	-		125.		A DOCTOR
		_		_	<i>.</i>				
of the last	E+6-1								
1 484 4	Are Are	Code	Conductore	Ô1		DelCaspo		beile	
10	here, ten	1040	UH .	- 12	146			520 million (0. Ma	1 85
10	have, im	1.00	Rate of Design	3	harr	(hep)	- 1	620+6534W	1 852
34	Dave, im	1965	LH.	- 6	146		- 1	525-63-6N	1 85
16	have, im	1.45	14		140		- 1	100+0104	
14 L	Tang ten	116	14	-	146			520-430 N	 80
16	have, ins	1965	14		140		- 1	520-43 B M	1 85
1 K I	have, tem	196	14	3	146			520-43 IÚA	1 102
36	Tare, inc.	1145	14		100		- 1	530+133 M	1 85
100	have, inc.	196	14	- M -	146		- 1	120-13-04	1 10
14	here, in	196	14	-	100		-)	520-434°N	1 15
14	have, inc.	1.45	Left .	10	140		- 1	100-41004	1 10
36	Dave, inc.	1940	146	12	140		- 1	505-197 N	
10	have, ins	196	Re o'Dep	1	have	(bep		100-10134	
36	Tang Am	1945	Re o'Dep		here	Owp	- 1	500-19 N N	
	Trave Ave.	1 August	it and		Tank .			5203-4 B 16 N	1 852



Alarm list / Trend display

	Software Specification						
P View suite	• P View Graph Stand-alone OPC client software package for Human Machine Interface, providing a rich set of tools f creating animated graphics. P View Graph combines drawing, operating procedures, quality reporting, management directly into your operator displays using ActiveX Controls and Visual Basic for Applicati (VBA) scripting language.						
	• P View Trend Stand-alone OPC client software package for collecting real-time data, logging data to a database, trending both real-time and historical data, while providing a powerful set of reporting and analysis tools. P View Trend offers an open solution to applications requiring scalable and distributed real-time performance using the latest OPC HDA specification for creating Plug and Play historical data servers and clients						
	• P View Alarm Stand-alone OPC client software package for distributed enterprise-wide alarm and events. It is a complete alarm management system. You can network enterprise-wide alarm management for detecting, sorting, filtering, viewing, reporting, and acknowledging OPC server alarms and events.						
P View standard components	• P View Script Stand-alone application that allows the creation and management of Visual Basic for Applications (VBA) scripts. P View Script simultaneously performs calculations, manages databases, and executes any operation available in the VBA language to access reports or perform recipe operations.						
	• P View Project Integrates all P View applications into a single, easy-to-manage format at one easily accessible location. It enables the organization of application files, import/export, publishing to web, password protection, report generation and numerous other project-orientated functions.						
	• P View VCR Enables the replay and reanimation of graphical, historical and alarm data. Functions include replay of OPC data, reanimation of graphics, re-plotting of trends, replay of alarms and graphical displays, change of speed, tinimg and search for key events, tag and expressions.						
	• P View Data Mining Enables visualization from various data sources, such as a Microsoft Access database, in a customizable, user- friendly display format that allows interaction with and manipulation of data. Supports many data sources, including Microsoft Access, Microsoft SQL Server, Microsoft Excel, MSDE, and Oracle.						
	• P View OPC Data Spy Utility for connecting to OPC servers, serving as a test application and a tool for viewing OPC information. It can test OPC Data Access compliance, as well as OPC Alarm and Events compliance. The analysis tools provided aid in quickly trouble-shooting third-party drivers.						
	• P View Broker Proven, high-speed communications utility for a applications where P View's standard DCOM communication technology is too slow. It uses TCP/IP and SOAP/XML channels to achieve real-time and secure communications between Web browser clients and WebHMI servers.						
	 Dr. DCOM Utility for helping set up DCOM connections for networked OPC clients and servers. 						
	• P View Security Server Manages access rights to users and groups of users within the P View suite of applications in accordance with FDA 21 CFR11 electronic signature and EU 178 tracibility directives. Permits the creating of custom groups, assigning of individuals and restriction of access of individuals to various product features.						
	• P View WebHMI Integrates your HMI application with traditional Web browsers to perform remote and low-cost monitoring of key manufacturing information. Allows not only the viewing of display information but also provides for security, data entry, and real-time interaction with your application.						
	P View Language Server						

Software Specification

P View Language Server

Allows language can be switched on screen or even changed according to the user profile of your operator. The language you select will be used for the visualization as well for the trend and alarm windows and their headlines.

P View options	• P View Data Collector Provides enabling technology, which includes OPC server-to-OPC server data bridging, OPC aggregation and mission-critical OPC-based redundancy. It allows, for example, the connection of an Allen Bradley OPC server to a Siemens OPC server and easy and seamless sharing of data. Data can also be manipulated through expressions and calculations.
	• P View Alarm Multimedia Option to P View Alarm, providing OPC-compliant multimedia technology for remote alarm notification. Various multimedia "agents" are offered, including paging (including SMS/TAP support), two-way paging, phone with call-in and call-out support, e-mail, Fax, voice annunciation of alarms via text-to-speech or recorded .wav files, video, pop-up windows, computer screen marquee and instant messaging.
Pocket P View (optional)	Pocket P View is a full feature HMI/SCADA (text based information via a Web Browser) using Pocket PCs with HMI/SCADA and wireless networking. It provides:
	 Microsoft® Windows® CE Visualization, Trending, and Alarming
	 Pocket HMI Automation Tools A HMI /SCADA suite of modular components for Microsoft® Pocket PC
	 Wireless Connectivity to Plant and Business Data
	 Data Mining With replay of historical data and database queries to Microsoft® SQL Server, MSDE, Microsoft Access and Oracle® databases
	 OPC Real-time Connectivity
	 Wireless Alarm Management
	 Analysis and Chartiing of Historical Data Replay historical data via time plots, strip charts, x-y plots etc.
	 Reliable and Secure Communications
	 Support of Multiple Pocket PC Platforms Supports COMPAQ, HP and CASIO running MIPS, ARM and X86 processors
	 Instant Notification of Critical Conditions
Utilities	• Symbol Library Supports the use of smart symbols in displays: smart symbols contain data-point connections. Available in P View Graph as a dockable toolbar or a floating window inside display files. Allows the creation, renaming, and deletion of category files and symbols within the dockable toolbar, as well as the unlocking of categories with passwords and changings of symbol icons in the view pane.
	• ActiveX ToolBox Provides tools for creating custom ActiveX controls and embedding them in ActiveX containers like P View Graph.
	• ActiveX Tool OPC-based ActiveX toolkit for creating customised, high-performance ActiveX controls that are true OPC clients.
Supplementary software	• FieldCare Endress+Hauser's Plant Asset Management Tool, which can easily be integrated into your visualization. FieldCare can be used, e.g. for the configuration and adjustment of any device parameter and can be invoked directly from the Graphical User Interface.
	• W@M (Web-enabled Asset Management) Connectivity via internet to Endress+Hauser's product data bases with instant access to equipment records, spare-part finder, certificates, download area etc.
	 Microsoft[®] Office[®] applications

System Requirements Operating system • Microsoft® Windows® 2000 with current SP • Microsoft® Windows® XP with current SP Software • Microsoft® Internet Explorer® 6.0 or above • Microsoft® Data Access Components (MDAC) 2.8 Hardware • Pentium 650 MHz processor or better • 128 MB RAM minimum • 256 - 512 MB RAM recommended • 600 MB free hard-disk space for full installation • Display 1024 x 768, 256 or more colours

System Capacity

License size	Three sizes of license can be delivered, see Ordering Information:					
	 75 OPC tags 150 OPC tags 500 OPC tags 					
	For larger licenses, please contact Endress+Hauser.					
Tag counting method	The OPC tags are counted in P View Alarm, P View Trend and P View Graph. The counting is handled as follows:					
	 Count the number of OPC tags connected in P View Alarm Add the number of OPC tags connected in P View Trend Add the number of OPC tags that are monitored in P View Graph individual OPC tags are counted once only, irrespective the number of displays in which they are used usually it is sufficient to count the number in the display with the most OPC tags in it. If you want to use pop-up windows add these tags too. 					

Ordering Information

Product structure

SPV200 P											
The softwa											
P VIEW Car			alle	u as ":	stand	-alon	e: apj	piica	ion without using the WebHMI.		
		ze 75 OPC tags									
	A B			$\sim tags$ PC tag							
	C			PC tag							
	Ŷ	oth		,	0-						
		Ор	era	tor S	tatio	n					
				FAT							
		Ν		FAT							
				ebHN							
						onal v			-		
			Ν			onal w			3		
						lultin					
				1 5		ail, Sl used	MS +	Рор	Up		
				5		a Col	lecto	11			
					1	used		/1			
					2	not					
						Rep	ort A	\dd-	On		
						0		used			
						1	free	defi	nable to according standards		
							Red	lund	ancy		
							А	not	used		
							В	*	server		
									ket P View		
								-	not used		
								1	server incl. 2 clients Pocket P View Clients		
								Apackage of 5 N not used			
SPV200											
01 1200	I	I	I			1	1				

	Documentation				
Competence Brochure	 ControlCare – P View Competence Brochure CP 007S/04/en/09.04 	 ControlCare Competence Brochure CP 008S/04/en/09.04 			
	 FieldCare Competence Brochure CP 001S/04/en/04.04 	 From Concept to Commissioning Competence Brochure CP 002S/04/en/04.04 			
Fields of Activity					
	 Process Solutions Fields of Activities FA 001S/04/en/04.04 				
Innovations Brochure	 Fieldgate Solutions Innovations Brochure IN 005F/00/en/04.04 				
Operating Instructions	 ControlCare - P View Operating Instructions BA 041S/04/en/09.04 	 ControlCare - P View Getting Started BA 042S/04/en/09.04 			

International Headquarters

Endress+Hauser GmbH+Co. KG Instruments International Colmarer Str. 6 79576 Weil am Rhein Deutschland

Tel. +49 76 21 9 75 02 Fax +49 76 21 9 75 34 5 www.endress.com info@ii.endress.com



People for Process Automation