Human/Machine Interfaces

The essential guide







Automation systems at

Simply Smart*

Welcome to the Simply Smart* world, compliments of Telemecanique

In order to improve the performance of your production equipment, Telemecanique offers you a complete range of hardware and software specifically for Human/Machine dialogue.

Compact, the range of Magelis display units, terminals and industrial PCs is characterised by its ease of implementation.

Ingenious, the software range simplifies the design of your HMI (Human Machine Interfaces) applications.

Take advantage of these new Telemecanique offers that are **open** to new information and communication technologies.

Used in conjunction with other Telemecanique equipment, they ensure an optimal solution for the operation of your automation systems.



Hardware range

Robustness and simplicity

The new Magelis range, comprising display units, terminals, graphic terminals with keypad or touchscreen and /PC industrial PCs, offers improved robustness for ensuring the availability of your installation.

Of high performance, this range meets the needs of machine Manufacturers, System integrators and Users due to its reduced size, very easy installation and setting-up, and its openness to Web technologies using the Ethernet Transparent Ready architecture.



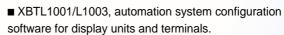


your beck and call

Software range

Ingenuity and user-friendliness

To benefit from perfect interoperability, select Telemecanique software.



- Vijeo Designer, multi-platform software which operates on the new graphic terminals in the Magelis range.
- Vijeo Look, open control software specifically for small and medium size applications.
- Monitor Pro, supervision software for distributed architectures, providing complete mastery of your production management.
- The FactoryCast HMI Web server executes at source the following functions: data acquisition, real-time databases, storage, alarm management and E-mail services, as well as monitoring your installation via animated Web pages.



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Human/Machine Interfaces The essential guide

A selection of the most popular selling products enabling you to quickly locate the most appropriate solution for your application... from the display unit to the industrial PC

Display units With alphanumeric screen







Туре		Compact display units		
Display	Capacity	2 lines, 20 characters	4 lines, 20 characters	
	Туре	Back-lit LCD, green	Back-lit LCD, green	Back-lit LCD, 3 colours:
				green, orange, red
Data entry		Via keypad with 8 keys (4 with cha	angeable legends)	
Functions	Representation of variables	Alphanumeric	Alphanumeric	Alphanumeric
Communication	Downloadable protocols	Uni-Telway, Modbus	Uni-Telway, Modbus	Uni-Telway, Modbus
Development software		XBTL1001 and XBTL1003 (on Win	ndows 98, 2000 and XP)	
Dimensions W x D x H		132 x 78 x 74 mm		132 x 104 x 74 mm
Compatibility with PLCs		Twido, Nano, TSX Micro, Premiun	n, Quantum	Twido, Nano, TSX Micro, Premium,
		TSX series 7, Momentum, Q		TSX series 7, Momentum, Quantum
Supply voltage		5 V DC	5 V DC	24 V DC, external
References		XBTN200	XBTN400	XBTN401

With matrix screen







Туре		Multilingual display units		
Display	Capacity	8 lines, 40 characters		
	Туре	Back-lit LCD, monochrome		
Data entry	Function / service keys	_	4/1	-/5
Functions	Representation of variables	Alphanumeric, bargraph, gauge		
Communication	Downloadable protocols	Multiple (Uni-Telway, Modbus, AEC	G and for Allen Bradley, GE Fanuc, G	Omron, Siemens PLCs)
Development software		XBTL1001 and XBTL1003 (on Wir	ndows 98, 2000 and XP)	
Dimensions W x D x H		202 x 64.8 x 111.3 mm		
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium	ı, Quantum	
Supply voltage		24 V DC		
Without printer link, without lo	og	XBTHM007010 XBTHM027010 XBTHM017010		
With printer link, with log		-	_	XBTHM017110

Terminals With alphanumeric screen





Туре		2 line multilingual alphanumeric terminals			
Display	Capacity	2 lines, 20 characters			
	Туре	Fluorescent matrix, green	า	Back-lit LCD, green	
Data entry	Function / service keys	8/9	12 / 10	8/9	12 / 10
	Numeric keys	-	12	-	12
Functions	Representation of variables	Alphanumeric	Alphanumeric		
Communication	Downloadable protocols	Multiple (Uni-Telway, Mod	dbus, AEG and for Allen Bra	adley, GE Fanuc, Omron, S	iemens PLCs)
Development software		XBTL1001 and XBTL100	3 (on Windows 98, 2000 ar	nd XP)	
Dimensions W x D x H		253 x 62.5 x 152 mm			
Compatibility with PLCs		Twido, Nano, TSX Micro,	Premium, Quantum	Twido, Nano, TSX Micro,	Premium, Quantum
Supply voltage		24 V DC 24 V DC			
Without printer link, without	log	XBTP012010 XBTP022010 XBTP011010 XBTP021010			XBTP021010
With printer link, with log		-	XBTP022110	-	XBTP021110

With matrix screen



Туре		8 line multilingual matrix screen terminals
Display Capacity		8 lines, 40 characters
	Туре	Back-lit LCD, monochrome
Data entry	a entry Function / service keys 12 / 10	
	Numeric / soft function keys	12 / 4
Functions	Representation of variables	Alphanumeric, bargraph, gauge
Communication	Downloadable protocols	Multiple (Uni-Telway, Modbus, AEG and for Allen Bradley, GE Fanuc, Omron, Siemens PLCs)
Development software		XBTL1001 and XBTL1003 (on Windows 98, 2000 and XP)
Dimensions W x D x H		253 x 62.5 x 155 mm
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium
Supply voltage		24 V DC
Without printer link, with	out log	XBTPM027010
With printer link, with log	ı	XBTPM027110



Graphic terminals With keypad





Туре		Terminals with keypad			
Display	Screen size	5.7"	10.4"		
	Туре	Back-lit monochrome LCD, green	TFT, 256 colours		
		16 levels of grey			
Data entry	Soft function keys with LED	8	10		
	Static function keys with LED	10 + legends	12 + legends		
	Service keys	12	12		
	Alphanumeric keys	12 + 3 alphanumeric access			
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, potentiometer, selector			
	Recipes	125 records maximum with 5000 values maximum			
	Curves	16	16		
	Alarm logs	Yes	Yes		
Communication	Downloadable protocols	Uni-Telway, Modbus, AEG and for	Allen Bradley, GE Fanuc, Omron, S	iemens PLCs	
	Bus and networks	Fipway, Modbus Plus with PCMCIA	A card (except XBTF011110)		
Development software		XBTL1003 (on Windows 98, 2000	and XP)		
Dimensions W x D x H		220.3 x 88 x 265 mm	296 x 91 x 332 mm		
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium, Quantum			
RJ45 Ethernet 10TCP/IP connec	ctor	no	no	yes	
Supply voltage		24 V DC	24 V DC		
References		XBTF011110 / F011310	XBTF024510	XBTF024610	

With touchscreen





Туре		Terminals with touchscreen			
Display	Screen size	5.7"	10.4"		
	Туре	LCD STN, 256 colours	LCD TFT, 256 colours		
Data entry		Touchscreen	Touchscreen		
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, potentiometer, selector			
	Recipes	125 records maximum with 5000 values maximum			
	Curves	16	16		
	Alarm logs	Yes	Yes		
Communication	Downloadable protocols	Uni-Telway, Modbus, AEG and for	Allen Bradley, GE Fanuc, Omron, S	iemens PLCs	
	Bus and networks	Fipway, Modbus Plus with PCMCI	A card (except XBTF032110)		
Development software		XBTL1003 (on Windows 98, 2000	and XP)		
Dimensions W x D x H		197 x 92.6 x 147 mm	296 x 91 x 222 mm		
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium	Twido, Nano, TSX Micro, Premium, Quantum		
RJ45 Ethernet 10 TCP/IP connector		no	no	yes	
Supply voltage		24 V DC	24 V DC		
References		XBTF032110 / F032310	XBTF034510	XBTF034610	

Graphic terminals open to NTIC

(New Technology for Information and Communication)

With 5.7" touchscreen





Туре		Optimum	Multifunction			
Display	LCD screen size	5.7"	5.7"		5.7"	5.7"
	Туре	Back-lit STN	Back-lit STN, monoc	chrome	STN, colour	TFT, colour
		monochrome, blue	black and white		64 colours	256 colours
Functions	Representation of variables	Alphanumeric, bitma	ap, bargraph, gauge, b	outton, light, clock, flas	shing light, keypad	
	Curves	yes, with log	yes, with log		yes, with log	
	Alarm logs	yes, incorporated	yes, incorporated		yes, incorporated	
Communication	Downloadable protocols	Uni-Telway, Modbus	Uni-Telway, Modbus	Uni-Telway, Modbus,	Uni-Telway, Modbus	Uni-Telway, Modbus,
				Modbus TCP/IP		Modbus TCP/IP
	Bus and networks	-	-	Ethernet, IEEE 802.3	-	Ethernet, IEEE 802.3
				10 BASE-T, RJ45		10 BASE-T, RJ45
Development software		Vijeo Designer VJDS	SPULFUCDV10M (on	Windows 2000 and X	(P)	
Dimensions W x D x H		207 x 58 x 157 mm	171 x 60 x 138 mm		132 x 74 x 78 mm	
Compatibility with PLCs		Twido, Nano, TSX M	K Micro, Premium, Quantum			
Built-in Ethernet 10 TCP/IP		no	no yes		no	yes
Supply voltage		24 V DC	24 V DC 24 V DC 24 V DC 24 V		24 V DC	
References		XBTG2110	XBTG2120	XBTG2130	XBTG2220	XBTG2330

With 7.4", 10.4" or 12.1" touchscreen







Туре		Multifunction				
Display	LCD screen size	7.4"		10.4"	10.4"	12.1"
	Туре	TFT, colour		STN, colour	TFT, colour	TFT, colour
		256 colours		64 colours	256 colours	256 colours
Functions	Representation of variables	Alphanumeric, bitma	ap, bargraph, gauge, b	outton, light, clock, fla	shing light, keypad	
	Curves	yes, with log		yes, with log		yes, with log
	Alarm logs	yes, incorporated		yes, incorporated		yes, incorporated
Communication	Downloadable protocols	Uni-Telway, Modbus	Uni-Telway, Modbus,	Uni-Telway, Modbus,		Uni-Telway, Modbus,
			Modbus TCP/IP	Modbus TCP/IP		Modbus TCP/IP
	Bus and networks	-	Ethernet, IEEE 802.	2.3 10 BASE-T, RJ45		
Development software		Vijeo Designer VJD	SPULFUCDV10M (on	Windows 2000 and X	(P)	
Dimensions W x D x H		215 x 60 x 170 mm		317 x 58 x 243 mm		
Compatibility with PLCs		Twido, Nano, TSX N	licro, Premium, Quan	tum		
«Compact Flash» card slot		yes yes yes yes		yes	yes	
Built-in Ethernet 10 TCP/IP		no	yes	yes	yes	yes
Supply voltage		24 V DC 24 V DC		24 V DC	24 V DC	24 V DC
References		XBTG4320	XBTG4330	XBTG5230	XBTG5330	XBTG6330

Accessories

For display units and terminals



Connection cables	PC to Magelis transfer cables (2.5 m)			
Application	PC to all XBTN200 and N400	PC to all XBT except XBTN200, N400 and XBTG	PC to XBTG	
Type of connector	RJ45 / MiniDin + SUB D 9	SUB D 9 / SUB D 25	SUB D 9 / MiniDin	
Physical link	RS 232C	RS 232C	TTL	
References	XBTZ945	XBTZ915	XBTZG915	

Connection cables	Telemecanique PLC connection cables (2.5 m)				
Application	XBTN200, N400 to	(BTN200, N400 to all XBT (except XBTN200, N400) to			
	Twido, Nano,	Twido, Nano,	Quantum	Momentum	
	TSX Micro, Premium	TSX Micro, Premium		(port 1)	
Type of connector	RJ45 / MiniDin	MiniDin / SUB D 25	SUB D 9 / SUB D 25	RJ45 / SUB D 25	
Physical link	RS 485	RS 485	RS 232	RS 232	
References	XBTZ978	XBTZ968	XBTZ9710	XBTZ9711	



Network cards	PCMCIA type III card		
Compatibility	XBTF	XBTF	
Protocol	Modbus Plus	Fipway	
References	TSXMBP100	TSXFPP20	





Memory cards	PCMCIA type II card	«Compact Flash» card	
Compatibility	XBTF	XBTG (except XBTG2110)	
Capacity	16 Mb	16 Mb 32 Mb	
References	XBTMEM16	XBTZGM16	XBTZGM32

Industrial PCs "all in one" Smart i PC and Compact i PC ranges





Launch 3rd quarter 2004

Туре		Smart iPC	Compact iPC		
Display	Size	15" active matrix XGA (1024 x 768	3)		
	Туре	Back-lit active matrix TFT colour L	.CD (262,144 colours)		
Data entry		Via touchscreen	Via touchscreen		
Processor	Type	VIA	VIA	Intel Pentium 4 Mobile	
	Frequency	667 MHz	667 MHz	1.7 GHz	
Internal hard disk		-	≥ 20 Gb IDE, 2 1/2"		
RAM memory		128 Mb expandable up to 512 Mb	lb 256 Mb expandable up to 512 Mb (1 memory slot max.)		
CD-ROM drive		-	Yes, 24 x		
Expansion slots		2 PCMCIA slots	1 PCI bus slot, 2 PCMCIA slots,		
		-	1 Compact Flash slot		
Ethernet TCP/IP netwo	rk	1 x 10 BASE-T/100 BASE-TX (RJ	45)		
Operating system		Windows XPe integrated	Windows 2000 pre-installed		
Input/Output ports		2 x USB, 1 x COM1, 1 x COM2,	2 x USB, 1 x COM1, 1 x COM2,		
		1 x LPT1 (parallel), 1 x PS/2 keyboard	1 x LPT1 (parallel), 1 x PS/2 keyl	poard and 1 x PS/2 mouse	
	on front panel	-	1 x USB		
Fixing		Fixings included with each produc	duct for mounting on panel or enclosure door		
Dimensions W x D x H		395 x 62 x 294 mm	395 x 100 x 294 mm		
Supply voltage		24 V DC	115230 V AC		
References		MPCST52NDJ00T	MPCKT52NAA00N	MPCKT55NAA00N	

Combined offers (bundle pack)

Magelis Compact /PC industrial PCs can be supplied with software packages. Characteristics identical to standard industrial PCs shown above.

Туре		Compact i PC		
Processor	Туре	VIA	Intel Pentium 4M	
Applications		Vijeo Look	Vijeo Look	
Pre-installed software		Vijeo Look 2.5 RT1024	Vijeo Look 2.5 RT1024	Vijeo Look 2.5 BT1024
References		MPCKT52NAA00A	MPCKT55NAA00A	MPCKT55NAA00B

Accessories

Compact Flash card	
Capacity	512 Mb (empty) for Smart /PC or Compact /PC
References	MPCYN00CFE00N

RAM memory expansion		
Capacity	512 Mb SO DIMM for VIA	512 Mb SO DIMM for Pentium 4 Mobile
References	MPCYK02RAM512	MPCYK05RAM512

Modular industrial PCs Modular i PC range







Type 12" front panel screen					
Display Size		12" active matrix SVGA (800 x 60	00)		
	Туре	Back-lit active matrix TFT colour	Back-lit active matrix TFT colour LCD (262,144 colours)		
Data entry Keyboard		Via keyboard	Via keyboard and touchscreen	Via touchscreen	
		70 standard IBM keys + 2 x 10 u	70 standard IBM keys + 2 x 10 user function keys		
Dimensions W x D x H		410 x 52.7 x 330 mm	410 x 52.7 x 330 mm	380 x 52.7 x 330 mm	
Input/Output ports on t	front panel	1 x IrDA infrared and 1 x PS/2 ke	eyboard/mouse		
Associated product		1 central unit Control box or 1 ce	ntral unit Control box pack (combined	d offer)	
Fixing		Fixings included with each scree	Fixings included with each screen for mounting on panel or enclosure door		
Supply voltage		115230 V AC from Control box	115230 V AC from Control box unit		
References		MPCNA20NNN00N	MPCNA20NNN00N MPCNB20NNN00N MPCNT20NNN00N		







Туре		15" front panel screen	15" front panel screen			
Display Size		15" active matrix XGA (1024 x 7	15" active matrix XGA (1024 x 768)			
	Туре	Back-lit active matrix TFT colou	Back-lit active matrix TFT colour LCD (262,144 colours)			
Data entry		Via keyboard	Via keyboard and touchscreen	Via touchscreen		
	Keyboard	70 standard IBM keys + 2 x 10	70 standard IBM keys + 2 x 10 user function keys -			
Dimensions W x D x H		480 x 52.7 x 370 mm	480 x 52.7 x 370 mm	460 x 52.7 x 340 mm		
Input/Output ports on fi	ront panel	1 x IrDA infrared and 1 x PS/2 k	keyboard/mouse			
Associated product		1 central unit Control box or 1 c	central unit Control box pack (combined	d offer)		
Fixation		Fixings included with each scre	Fixings included with each screen for mounting on panel or enclosure door			
Supply voltage		115230 V AC from Control box	115230 V AC from Control box unit			
References MPCNA50NNN00N MPCNB50NNN00N MPCNT50NN			MPCNT50NNN00N			

Modular industrial PCs Modular i PC range







Central unit Contro	ol box type	Small	Medium Large		Large	
Processor	Туре	Intel Celeron	Intel Celeron	Intel Pentium III	Intel Celeron	Intel Pentium III
	Frequency	566 MHz	566 MHz	850 MHz	566 MHz	850 MHz
Internal hard disk		≥ 20 Gb IDE, 2 1/2"	≥ 20 Gb IDE, 2 1/2"			
RAM memory		128 Mb SDRAM exp	pandable up to 512 M	b (2 memory slots ma	x.)	
CD-ROM drive		Optional	Yes, removable 24	(
Expansion slots		-	3 slots		6 slots	
			(1 ISA bus, 1 PCI bus and 1 ISA/PCI bus) (2 ISA bus, 3 PCI bus and 1 ISA/PCI bus			s and 1 ISA/PCI bus)
Ethernet TCP/IP netwo	rk	1 x 10 BASE-T/100	1 x 10 BASE-T/100 BASE-TX (RJ45)			
Bus and networks		-	 With additional card on ISA or PCI bus: Modbus/Uni-Telway/Fipio bus, 			oio bus,
			Modbus Plus/Fipwa	y networks, InterBus-	S/Profibus DP/CANop	en Third party bus
Video card	built-in	PCI 64 bit controller	, 2 Mb RAM			
Operating system		Windows 2000 pre-i	nstalled			
Input/Output ports		2 x USB, 1 x COM1	, 1 x COM4 and 1 x L	PT1 (parallel)		
		1 x external VGA vio	deo screen, 1 x PS/2 l	eyboard (1) and 1 x F	PS/2 pointing device (1)
Associated product		1 front panel screen	or as a stand-alone (2)		
Fixings		Fixings included with	Fixings included with each screen for mounting on panel or enclosure door			
Dimensions W x D x H		310 x 310 x 94.2 mm	310 x 310 x 94.2 mm 310 x 310 x 184.5 mm 310 x 310 x 258 mm			1
115230 V AC supply	voltage	MPCAN02NAA00N	MPCAN02NAA00N MPCBN02NAA00N MPCBN05NAA00N MPCCN02NAA00N MPCCN05NAA00N			MPCCN05NAA00N
24 V DC supply voltage)	MPCAN02NDA00N	MPCAN02NDA00N MPCBN02NDA00N MPCBN05NDA00N MPCCN02NDA00N MPCCN05NDA0			MPCCN05NDA00N
1) Part not apprehingly when the control unit Control having used with the front nonel paragraph					•	

⁽¹⁾ Port not operational when the central unit Control box is used with the front panel screen.

Combined offers (bundle pack)

 ${\it Magelis} \ i \ {\it PC} \ central \ unit \ Control \ boxes \ (115...230 \ V \ AC \ supply) \ can \ be \ supplied \ with \ software \ packages.$

Characteristics identical to standard Control box units shown above.

Central unit Control box ty	уре	Small	Medium
Processor	Туре	Intel Celeron, 566 MHz	Intel Celeron, 566 MHz
Pre-installed software	Pack A «Monitoring RT»	Vijeo Look supervision, 1024 I/O "Run Time"	Vijeo Look supervision, 1024 I/O "Run Time"
	Pack B «Monitoring BT/RT»	-	Vijeo Look supervision, 1024 I/O "Build Time/Run Time"
Pack A, 115 230 V AC supply	voltage	MPCAN02NAA00A	MPCBN02NAA00A
Pack B, 115 230 V AC supply	voltage	-	MPCBN02NAA00B

Accessories





Separate components					
Description		External LCD flat screen,	flush mounting	Swivel arm	Qwerty keyboard
		12" SVGA (800 x 600)	15" XGA (1024 x 768)	for external screen	101 keys, PS/2
References		-	-	MPCYN00ARM00N	MPCYN00KBD00N
	115230 V AC supply voltage	MPCYS20NAN00N	MPCYS50NAN00N	-	-
	24 V DC supply voltage	MPCYS20NDN00N	MPCYS50NDN00N	-	-

Separate components for Control box					
Description SDRAM memory expansion CD-ROM drive for Small Control by					
	64 Mb	128 Mb	256 Mb	MPCAN0	
References	MPCYN00RAM064	MPCYN00RAM128	MPCYN00RAM256	MPCYN00CDR00N	

⁽²⁾ To use the Control box without a front panel screen, mounting panel MPCNP00NNN00N is required.



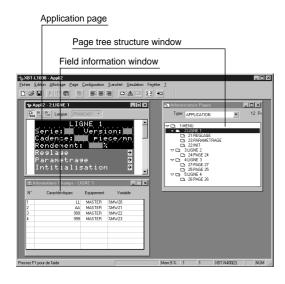
Configuration software





Туре	Configuration software			
Compatibility	All XBT except XBTG XBTG			
Operating system	Windows 98, 2000 and XP	Windows 2000 and XP		
Version (1)	Light (not for XBTF)	Complete	Vijeo Designer complete	
References for PC CD-ROM	XBTL1001M	VJDSPULFUCDV10M		
References for CD-ROM update	-	XBTLUP1004	_	

⁽¹⁾ Demonstration version available, XBTL1001M / L1003M demo: XBTL1003DEMO, Vijeo Designer demo: VJDSPULTUCDV10M



XBTL1001 / L1003 for Magelis display units and terminals

The XBTL1001/L1003 configuration software can be used to create operator dialogue applications designed for controlling automation systems for:

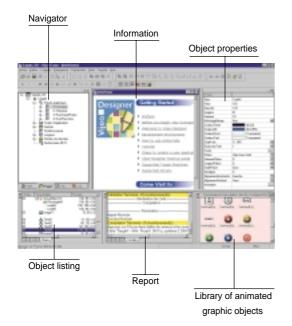
all XBTN/H/HM display units, XBTP/PM/E terminals with software XBTL1001,

all XBTN/H/HM display units, XBTP/PM/E and F terminals with software XBTL1003.

Applications created using the XBTL1001/L1003 software are independent to the protocol used. The same operator dialogue application can be used with PLCs available from the principal manufacturers.

Configuration

The XBTL1001/L1003 configuration software enables simple creation of various types of pages: application pages (can be interlinked), alarm pages, help pages, recipe pages, etc.



Vijeo Designer for Magelis touchscreen graphic terminals XBTG

The Vijeo Designer configuration software can be used to create operator dialogue applications designed for controlling automation systems for all the Magelis range of New Technology (NTIC) terminals: XBTG.

Configuration

The Vijeo Designer configuration software enables operator dialogue projects to be easily and quickly performed due to advanced ergonomics using 6 configurable windows.

Vijeo Designer configuration software also offers complete application management tools:

- . Project creation, a project being one or several applications.
- . Cross-referencing of application variables.
- . Application synoptics documentation.
- . A simulation mode for easy testing of the application from the design office.

Powerful graphics editor for easy creation of synoptics.

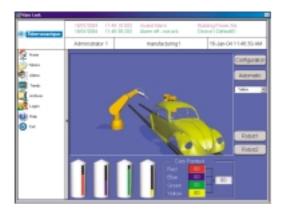
8 types of object animation for animated synoptics.

Vijeo Look

Control software



Туре	Control software			
Compatibility	All Telemecanique PLCs and Third party PLCs			
Operating system	Windows 2000 and XP			
Input/Output size	1024 I/O			
Version	"Build Time/Run Time"	"Run Time"		
References for PC CD-ROM	VJLSMDBTLV25M	VJLSMDRTLV25M		



Vijeo Look for industrial PCs

Presentation

Vijeo Look 2.5 is a SCADA (Supervisory Control And Data Acquisition) software package designed for stand-alone stations, that offers perfect synergy between the Web and HMI (Human Machine Interface). It is based on open and standardised technologies.

Easy to implement, it offers all the standard functions of a graphic supervision tool.

Vijeo Look is supplied with a pre-configured OFS (OPC Factory Server) Data Server. It is compatible with PCs running Windows 2000 Professional or Windows XP Professional and enables the creation of applications based on all Telemecanique new and old generation PLCs.

The functions of Vijeo Look control software can be used for:

- . Acquisition of PLC tags.
- . Visualisation of these tags.
- . Process supervision and control.
- . Recording the values of the PLC tags or internal tags of the process in a database.
- . Embedded software processing.

The Inputs/Outputs are tags from the OPC Server (or those of the Inputs/Outputs of TSX Micro/Premium PLCs exchanged automatically). They are used for visualisation and embedded processing.

Simple and innovative, Vijeo Look offers optimal solutions.

Structure of the offer

2 types of software licence are available for Vijeo Look:

- . "Build Time/Run Time" for application development and execution.
- . "Run Time" for the execution of applications created with a "Build Time"/"Run Time" licence.

Supervision software



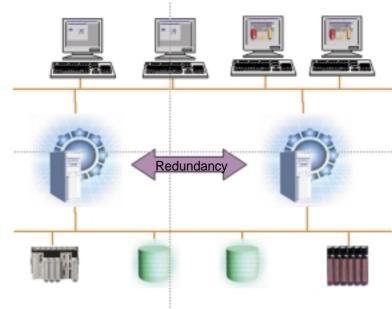
Туре	Supervision software
Compatibility	All Telemecanique PLCs and other PLCs on the market via communication drivers or using the standard OPC
Operating system	Windows 2000 service Pack 3 and Windows XP
Input/Output size	11 sizes comprising 300 I/Os to unlimited I/Os (4800 tags to unlimited)
Versions	Development (Build Time/Run Time) and Execution (Run Time)
References for PC CD-ROM	Please contact your Regional Sales Office

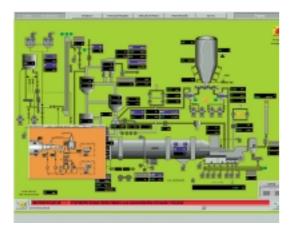
Multi-level architecture

Monitor Pro
Clients development and
execution stations

Monitor Pro
Development servers stations

Data/information





Description

Monitor Pro V7.2 is a SCADA (Supervisory Control And Data Acquisition) software solution. Its real-time high performance server offers excellent processing capability, mainly due to the application objects. In addition, its client-server architecture enables it to easily adapt to the topology of your application: multiserver for sharing the processing, multi-user for a wide distribution of information or in redundancy mode for your "high availability" applications.

- The graphic interface offers a library of graphic objects. Based on Windows technology, they can easily be customised.
- The Configuration Explorer: an intuitive environment for configuration of the real-time data server that also enables object orientated configuration.
- **Relational databases access interface**, supplied with SQL Server 2000. Monitor Pro V7.2 easily enables recording of the production data or access to the stored information. Monitor Pro V7.2 also operates with Oracle, Sybase, Dbase IV and databases supporting the ODBC standard.
- Improved availability: Monitor Pro incorporates redundancy services ensuring a high level of architecture availability.
- Integrated traceability functions, for real-time monitoring of the quality of your production as well as logging all the actions of the operators.

Monitor Pro V7.2 is the supervision software that adapts to your needs. It offers you real-time monitoring of production and enables you to optimise the operation of your equipment.

_____ Embedded Web servers





Implementation software	FactoryCast	FactoryCast HMI
Compatibility with Telemecanique PLCs	TSX Micro, Premium, Quantum	Premium, Quantum
Operating system	Windows 2000 and XP	
Application	Configuration of FactoryCast modules	Development and implementation of FactoryCast HMI application
References for multilingual PC CD-ROM	Included with FactoryCast modules	TLXCDFCHMIV1M



FactoryCast

Remote diagnostic functions using simple Internet browser

- . Secure access to the diagnostics system and application
- . Numerical or graphical display and adjustment of data
- . Open to customisation and creation of Web pages for diagnostics suited to your needs

FactoryCast HMI

Identical diagnostic functions as FactoryCast + new HMI functions embedded in a PLC module:

- . Real-time database and acquisition of PLC data (1000 variables)
- . Calculations for pre-processing of data
- . Advanced alarm management with e-mailing
- . Archiving of data in relational databases (SQL, Oracle, MySQL)

(Available on Telemecanique Quantum and Premium PLCs)

FactoryCast Web server modules







Automation platform		TSX Micro	Premium		Quantum		
Data rate		10/100 Mbit/s	10 Mbit/s	10/100 Mbit/s 10/100 Mbit/s			
Ethernet services	Modbus TCP/IP Protocol	Yes	Yes	Yes	Yes	Yes	Yes
	Uni-TE TCP/IP Protocol	Yes	Yes	Yes	-	-	-
	Ethway Protocol	-	Yes	-	-	-	_
	Global Data	-	-	Yes	-	Yes	-
	I/O Scanning	-	-	Yes	-	Yes	-
Embedded Web server	Standard Web services	Yes	Yes	Yes	Yes	Yes	Yes
	FactoryCast services	Yes	Yes	Yes	Yes	Yes	Yes
	FactoryCast HMI services	-	-	_	Yes	-	Yes
References		TSXETZ510	TSXETY110WS	TSXETY5103	TSXWMY100	140NOE77111	140NWM10000

The efficiency of Telemecanique branded solutions

more compatibility

When combined, Telemecanique products offer quality solutions, meeting all your application automation and control function requirements.



more service

A unique partner, a global presence



Constantly available worldwide

With more than 5000 points of sale in 130 countries, you can be sure to find the range of products which is right for you and which complies fully with the standards in the country in which they are to be used.

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Our technicians are at your disposal to assist you in finding the optimum solution for your particular needs. Schneider provides you with all necessary technical assistance throughout the world.

Schneider Electric Industries S.A.S.

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Production: IGS-CP Photos: Photothèque Schneider Electric Printed by: