Project2

Project

Name:	Project2	Creation time:	3/26/2019 4:22:59 PM	Last change	3/26/2019 6:03:33 PM
Author:	admin	Last modified by:	admin	Version:	
Comment:					

Operating system

Name	Description
Operating system	Microsoft Windows 8.1 Pro
Version of the operating system	6.3.9600.0
Operating system service pack	
Version of the Internet Explorer	9.11.9600.17031
Computer name	LAB_AA_5
User name	LAB_AA_5\admin
Installation path of the TIA Portal	C:\Program Files (x86)\Siemens\Automation\Portal V13

Components

Name	Version	Release
SIMATIC S7-PLCSIM (S7_PLCSIM_V13)	V13.0 + SP1 + Upd1	V13.00.01.01_01.75.00.01
Siemens Totally Integrated Automation Portal V13 - SIMATIC S7-PLCSIM V13.0 + SP1 + Upd1 (S7_PLCSIM_V13)	V13.0 + SP1 + Upd1	V13.00.01.01_01.75.00.01
Totally Integrated Automation Portal V13 - TIA Portal Single Setup-Package V13.0 + SP1 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - HM All Editions Single SetupPackage V13.0 SP1 UPD9 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - HM NoBasic Single SetupPackage V13.0 SP1 UPD9 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - Hardware Support Base Package 0 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - STEP 7 Single SetupPackage V13.0 SP1 UPD9 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - Hardware Support Base Package 02 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - Hardware Support Base Package 03 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - Support Base Package TO-01 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - Support Base Package TO-02 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - Hardware Support Base Package WCF-01 V13.0 (TIAP13)	V13.0	V13.00.00.00_10.01.00.03
Siemens Totally Integrated Automation Portal V13 - TIACOMPCHECK Single SetupPackage V13.0 + SP1 + Upd9 (TIAP13)	V13.0 + SP1 + Upd9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - TIA Tour Single SetupPackage V13.0 + SP1 (TIAP13)	V13.0 + SP1	V13.00.01.00_25.01.00.01
Siemens Totally Integrated Automation Portal V13 - Simatic Single SetupPackage V13.0 SP1 UPD9 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Siemens Totally Integrated Automation Portal V13 - WinCC Single SetupPackage V13.0 SP1 UPD9 (TIAP13)	V13.0 SP1 UPD9	V13.00.01.09_07.01.00.01
Automation Software Updater	13.0	V01.07.00.00_01.01.00.01
SIMATIC HMI ProSave	13.0.1.0	V13.00.01.00_25.01.00.01
SIMATIC HMI Symbol Library	13.0.1.0	V13.00.01.00_25.01.00.01
SIMATIC Device Drivers WoW	29.0	29.00.08.00_01.02.00.01
SIMATIC Event Database	5.5	05.05.04.02_01.01.00.02
SeCon	2.2.0.0	V02.02.00.00_01.05.00.02
WinCC Runtime Advanced Simulator	13.0.1.0	V13.00.01.00_25.01.00.01

Products

Name	Version	Release
SIMATIC S7-PLCSIM	V13.0 SP1 Upd1	V13.00.01.01_01.75.00.01
SIMATIC STEP 7 Basic	V13.0 SP1 Upd9	V13.00.01.09_07.01.00.01
SIMATIC WinCC Basic	V13.0 SP1 Upd9	V13.00.01.09_07.01.00.01
Automation License Manager	V5.3 + SP2 + Upd2	05.03.02.02_01.01.00.01
SIMATIC ProSave	V13.0 SP1	V13.00.01.00_25.01.00.01
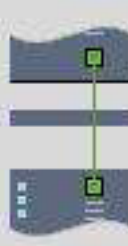
Project2

PLC_1 [CPU 1212C AC/DC/Rly]

PLC_1					
General\Project information					
Name	PLC_1	**Author**	admin	**Comment**	
Slot	1	**Rack**	0		
General\Catalog information					
Short designation	CPU 1212C AC/DC/Rly	**Description**	Work memory 75 KB; 120/240VAC power supply with DI8 x 24VDC SINK/SOURCE, DQ6 x relay and AI2 on board; 4 high-speed counters (expandable with digital signal board) and 4 pulse outputs on board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 2 signal modules for I/O ex-pansion; 0.04 ms/1000 instruc-tions; PROFINET interface for pro-gramming, HMI and PLC to PLC communication	**Article number**	6ES7 212-1BE40-0XB0
Firmware version	V4.1				
General\Identification & Maintenance					
Plant designation		**Location identifier**		**Installation date**	2019-03-26 16:23:17.062
Additional informa-tion					
PROFINET interface [X1]\General					
Name	PROFINET interface_1	**Author**	admin	**Comment**	
PROFINET interface [X1]\General\Project information					
Name	DI 8/DQ 6_1	**Comment**		**Name**	AI 2_1
Comment		**Name**	DQ 4x24VDC_1	**Comment**	
PROFINET interface [X1]\General\Catalog information					
Short designation	DQ4 signal board (200 kHz)	**Description**	Signal board DQ4 x 24VDC / 200 kHz; plug-in terminal blocks	**Article number**	6ES7 222-1BD30-0XB0
Firmware version	V1.0				
PROFINET interface [X1]\Ethernet addresses\Interface networked with					
Subnet:	PN/IE_1				
PROFINET interface [X1]\Ethernet addresses\IP protocol					
	Set IP address in the project	**IP address:**	192.168.0.1	**Subnet mask:**	255.255.255.0
Use router	False				
PROFINET interface [X1]\Ethernet addresses\PROFINET					
PROFINET device name is set directly at the device	False	**Generate PROFINET device name auto-matically**	True	**PROFINET device name**	plc_1
Converted name:	plcxb1d0ed	**Device number:**	0		
PROFINET interface [X1]\Time synchronization					
Enable time syn-chronization via NTP server	Enable time synchronization via NTP server		IP addresses	**Server 1**	0.0.0.0
Server 2	0.0.0.0	**Server 3**	0.0.0.0	**Server 4**	0.0.0.0
Update interval	10sec				
PROFINET interface [X1]\Digital inputs\Channel0					
Channel address	I0.0	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel0					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49152	**Event name:**	0
Hardware interrupt:	0	**Rising edge0**	Rising edge0		
PROFINET interface [X1]\Digital inputs\Channel0					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49280	**Event name:**	0
Hardware interrupt:	0	**Falling edge0**	Falling edge0		
PROFINET interface [X1]\Digital inputs\Channel1					
Channel address	I0.1	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel1					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49153	**Event name:**	0
Hardware interrupt:	0	**Rising edge1**	Rising edge1		
PROFINET interface [X1]\Digital inputs\Channel1					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49281	**Event name:**	0
Hardware interrupt:	0	**Falling edge1**	Falling edge1		
PROFINET interface [X1]\Digital inputs\Channel2					
Channel address	I0.2	**Input filters**	1.6 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel2					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49154	**Event name:**	0
Hardware interrupt:	0	**Rising edge2**	Rising edge2		
PROFINET interface [X1]\Digital inputs\Channel2					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49282	**Event name:**	0
Hardware interrupt:	0	**Falling edge2**	Falling edge2		
PROFINET interface [X1]\Digital inputs\Channel3					
Channel address	I0.3	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel3					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49155	**Event name:**	0
Hardware interrupt:	0	**Rising edge3**	Rising edge3		

PROFINET interface [X1]\Digital inputs\Channel3\						
Enable falling edge detection	0	RidPrefixFallingEdgeEvent	49283	Event name:	0
Hardware interrupt:	0	Falling edge3	Falling edge3		

PROFINET interface [X1]\Digital inputs\Channel4						
Channel address	I0.4	Input filters	6.4 millisec	Enable pulse catch	0

PROFINET interface [X1]\Digital inputs\Channel4\						
Enable rising edge detection	0	RidPrefixRisingEdgeEvent	49156	Event name:	0
Hardware interrupt:	0	Rising edge4	Rising edge4		

PROFINET interface [X1]\Digital inputs\Channel4\						
Enable falling edge detection	0	RidPrefixFallingEdgeEvent	49284	Event name:	0
Hardware interrupt:	0	Falling edge4	Falling edge4		

PROFINET interface [X1]\Digital inputs\Channel5						
Channel address	I0.5	Input filters	6.4 millisec	Enable pulse catch	0

PROFINET interface [X1]\Digital inputs\Channel5\						
Enable rising edge detection	0	RidPrefixRisingEdgeEvent	49157	Event name:	0
Hardware interrupt:	0	Rising edge5	Rising edge5		

PROFINET interface [X1]\Digital inputs\Channel5\						
Enable falling edge detection	0	RidPrefixFallingEdgeEvent	49285	Event name:	0
Hardware interrupt:	0	Falling edge5	Falling edge5		

PROFINET interface [X1]\Digital inputs\Channel6						
Channel address	I0.6	Input filters	6.4 millisec	Enable pulse catch	0

PROFINET interface [X1]\Digital inputs\Channel6\						
Enable rising edge detection	0	RidPrefixRisingEdgeEvent	49158	Event name:	0
Hardware interrupt:	0	Rising edge6	Rising edge6		

PROFINET interface [X1]\Digital inputs\Channel6\						
Enable falling edge detection	0	RidPrefixFallingEdgeEvent	49286	Event name:	0
Hardware interrupt:	0	Falling edge6	Falling edge6		

PROFINET interface [X1]\Digital inputs\Channel7						
Channel address	I0.7	Input filters	6.4 millisec	Enable pulse catch	0

PROFINET interface [X1]\Digital inputs\Channel7\						
Enable rising edge detection	0	RidPrefixRisingEdgeEvent	49159	Event name:	0
Hardware interrupt:	0	Rising edge7	Rising edge7		

PROFINET interface [X1]\Digital inputs\Channel7\						
Enable falling edge detection	0	RidPrefixFallingEdgeEvent	49287	Event name:	0
Hardware interrupt:	0	Falling edge7	Falling edge7		

PROFINET interface [X1]\Analog inputs\Noise reduction	
Integration time	50 Hz (20 ms)

PROFINET interface [X1]\Analog inputs\Channel0						
Channel address	IW64	Measurement type	Voltage	Voltage range	0..10 V
Smoothing	Weak (4 cycles)			Enable overflow diagnostics	1

PROFINET interface [X1]\Analog inputs\Channel1						
Channel address	IW66	Measurement type	Voltage	Voltage range	0..10 V
Smoothing	Weak (4 cycles)			Enable overflow diagnostics	1

PROFINET interface [X1]\Digital outputs				
Reaction to CPU STOP	Use substitute value	Reaction to CPU STOP	Use substitute value

PROFINET interface [X1]\Digital outputs\Channel0						
Channel address	Q0.0	Substitute a value of 1 on a change from RUN to STOP.	0	Channel address	Q4.0
Substitute a value of 1 on a change from RUN to STOP.	0				

PROFINET interface [X1]\Digital outputs\Channel1						
Channel address	Q0.1	Substitute a value of 1 on a change from RUN to STOP.	0	Channel address	Q4.1
Substitute a value of 1 on a change from RUN to STOP.	0				

PROFINET interface [X1]\Digital outputs\Channel2						
Channel address	Q0.2	Substitute a value of 1 on a change from RUN to STOP.	0	Channel address	Q4.2
Substitute a value of 1 on a change from RUN to STOP.	0				

PROFINET interface [X1]\Digital outputs\Channel3						
Channel address	Q0.3	Substitute a value of 1 on a change from RUN to STOP.	0	Channel address	Q4.3
Substitute a value of 1 on a change from RUN to STOP.	0				

PROFINET interface [X1]\Digital outputs\Channel4				
Channel address	Q0.4	Substitute a value of 1 on a change from RUN to STOP.	0

PROFINET interface [X1]\Digital outputs\Channel5				
Channel address	Q0.5	Substitute a value of 1 on a change from RUN to STOP.	0

PROFINET interface [X1]\Operating mode					
IO controller	True	IO system		Device number	0
IO device	False				

PROFINET interface [X1]\I/O addresses\Input addresses					
Start address	0	End address	0	Organization block	0
Process image	0				

PROFINET interface [X1]\I/O addresses\Output addresses					
Start address	0	End address	0	Organization block	0
Process image	0				

PROFINET interface [X1]\Advanced options\Interface options					
Support device replacement without exchangeable medium	True	Permit overwriting of device names of all assigned IO devices	False	Use IEC V2.2 LLDP mode	False
Send keepalives for connections	30s				

PROFINET interface [X1]\Advanced options\Real time settings\IO communication	
Send clock:	1.000ms

PROFINET interface [X1]\Advanced options\Real time settings\Real time options	
Calculated bandwidth for cyclic IO data:	0.000ms

PROFINET interface [X1]\Advanced options\Port [X1 P1]\General					
Name	Port_1	Author	admin	Comment	

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port interconnection\Local port:					
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1]	Medium:	Copper	Cable name:	---

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port interconnection\Partner port:					
	Monitoring of partner port is not possible	Alternative partners	False	Partner port:	CSM 1277_1\SCALANCE interface [X1]\Port_1 [X1 P1]
Medium:	Copper	Cable length:			

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Activate	
Activate this port for use	True

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Connection					
Transmission rate / duplex:	Automatic	Monitor	False	Enable autonegotiation	True

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Boundaries					
End of detection of accessible devices	False	End of topology discovery	False	End of the sync domain	False

PROFINET interface [X1]\Advanced options\Port [X1 P1]\Hardware identifier\Hardware identifier	
Hardware identifier	65

PROFINET interface [X1]\Web server access			
Enable Web server using this interface	False	The Web server must also be activated in the properties of the PLC.	

PROFINET interface [X1]\Hardware identifier\Hardware identifier			
Hardware identifier	257	Hardware identifier	64

High speed counters (HSC)\HSC1\General\Enable	
Enable this high speed counter	0

High speed counters (HSC)\HSC1\General\Project information			
Name	HSC_1	Comment	

High speed counters (HSC)\HSC1\Function					
Type of counting	Count	Operating phase	Single phase		
Counting direction is specified by	User program (internal direction control)	Initial counting direction	Count up		
Frequency measuring period	-/-sec				

High speed counters (HSC)\HSC1\Reset to initial values\Reset values			
Initial counter value	0	Initial reference value	0

High speed counters (HSC)\HSC1\Reset to initial values\Reset options			
Use external reset input	0	Reset signal level	-/-

High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for counter value equals reference value event.	0	RidPrefixCvEqualsPv	49152	Event name:	0
Hardware interrupt:	0	Counter value equal to reference value0	Counter value equal to reference value0	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for external reset event.	0	RidPrefixExternalReset	49408	Event name:	0
Hardware interrupt:	0	External reset0	External reset0	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for change of direction event.	0	RidPrefixDirectionChange	49280	Event name:	0

Hardware interrupt:	0	Change of direction0	Change of direction0	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC1\Hardware inputs

Clock generator input	---	HSCInput0_Status	1	Direction input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC1\Hardware inputs

Direction input	---	HSCInput1_Status	1	Clock generator input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC1\Hardware inputs

Reset input	---	HSCInput2_Status	1	Clock generator input	---
Direction input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC1\I/O addresses\Input addresses

Start address	1000	End address	1003	Organization block	0
Process image	0				

High speed counters (HSC)\HSC1\Hardware identifier\Hardware identifier

Hardware identifier	259

High speed counters (HSC)\HSC2\General\Enable

Enable this high speed counter	1

High speed counters (HSC)\HSC2\General\Project information

Name	HSC_2	Comment	

High speed counters (HSC)\HSC2\Function

Type of counting	Frequency	Operating phase	Single phase		
Counting direction is specified by	User program (internal direction control)	Initial counting direction	Count up		
Frequency measuring period	1.0sec				

High speed counters (HSC)\HSC2\Reset to initial values\Reset values

Initial counter value	0	Initial reference value	0

High speed counters (HSC)\HSC2\Reset to initial values\Reset options

Use external reset input	0	Reset signal level	-/-

High speed counters (HSC)\HSC2\Event configuration

Generate interrupt for counter value equals reference value event.	0	RidPrefixCvEqualsPv	49152	Event name:	0
Hardware interrupt:	0	Counter value equal to reference value1	Counter value equal to reference value1	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC2\Event configuration

Generate interrupt for external reset event.	0	RidPrefixExternalReset	49408	Event name:	0
Hardware interrupt:	0	External reset1	External reset1	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC2\Event configuration

Generate interrupt for change of direction event.	0	RidPrefixDirectionChange	49280	Event name:	0
Hardware interrupt:	0	Change of direction1	Change of direction1	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC2\Hardware inputs

Clock generator input	%I0.2	HSCInput0_Status	1	Direction input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC2\Hardware inputs

Direction input	---	HSCInput1_Status	1	Clock generator input	%I0.2

Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC2\Hardware inputs

Reset input	---	HSCInput2_Status	1	Clock generator input	%I0.2
Direction input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC2\I/O addresses\Input addresses

Start address	1004	End address	1007	Organization block	0
Process image	0				

High speed counters (HSC)\HSC2\Hardware identifier\Hardware identifier

Hardware identifier	260

High speed counters (HSC)\HSC3\General\Enable

Enable this high speed counter	0

High speed counters (HSC)\HSC3\General\Project information

Name	HSC_3	Comment	

High speed counters (HSC)\HSC3\Function

Type of counting	Count	Operating phase	Single phase
Counting direction is specified by	User program (internal direction control)	Initial counting direction	Count up
Frequency measuring period	-/-sec		

High speed counters (HSC)\HSC3\Reset to initial values\Reset values

Initial counter value	0	Initial reference value	0

High speed counters (HSC)\HSC3\Reset to initial values\Reset options

Use external reset input	0	Reset signal level	-/-

High speed counters (HSC)\HSC3\Event configuration

Generate interrupt for counter value equals reference value event.	0	RidPrefixCvEqualsPv	49152	Event name:	0
Hardware interrupt:	0	Counter value equal to reference value2	Counter value equal to reference value2	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC3\Event configuration

Generate interrupt for external reset event.	0	RidPrefixExternalReset	49408	Event name:	0
Hardware interrupt:	0	External reset2	External reset2	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC3\Event configuration

Generate interrupt for change of direction event.	0	RidPrefixDirectionChange	49280	Event name:	0
Hardware interrupt:	0	Change of direction2	Change of direction2	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC3\Hardware inputs

Clock generator input	---	HSCInput0_Status	1	Direction input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC3\Hardware inputs

Direction input	---	HSCInput1_Status	1	Clock generator input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC3\Hardware inputs

Reset input	---	HSCInput2_Status	1	Clock generator input	---
Direction input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC3\I/O addresses\Input addresses				
Start address	1008	End address	1011	Organization block	0
Process image	0				

High speed counters (HSC)\HSC3\Hardware identifier\Hardware identifier	
Hardware identifier	261

High speed counters (HSC)\HSC4\General\Enable	
Enable this high speed counter	0

High speed counters (HSC)\HSC4\General\Project information			
Name	HSC_4	Comment	

High speed counters (HSC)\HSC4\Function					
Type of counting	Count	Operating phase	Single phase		
Counting direction is specified by	User program (internal direction control)	Initial counting direction	Count up		
Frequency measuring period	-/-sec				

High speed counters (HSC)\HSC4\Reset to initial values\Reset values			
Initial counter value	0	Initial reference value	0

High speed counters (HSC)\HSC4\Reset to initial values\Reset options			
Use external reset input	0	Reset signal level	-/-

High speed counters (HSC)\HSC4\Event configuration\					
Generate interrupt for counter value equals reference value event.	0	RidPrefixCvEqualsPv	49152	Event name:	0
Hardware interrupt:	0	Counter value equal to reference value3	Counter value equal to reference value3	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC4\Event configuration\					
Generate interrupt for external reset event.	0	RidPrefixExternalReset	49408	Event name:	0
Hardware interrupt:	0	External reset3	External reset3	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC4\Event configuration\					
Generate interrupt for change of direction event.	0	RidPrefixDirectionChange	49280	Event name:	0
Hardware interrupt:	0	Change of direction3	Change of direction3	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC4\Hardware inputs\					
Clock generator input	---	HSCInput0_Status	1	Direction input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC4\Hardware inputs\					
Direction input	---	HSCInput1_Status	1	Clock generator input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC4\Hardware inputs\					
Reset input	---	HSCInput2_Status	1	Clock generator input	---
Direction input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC4\I/O addresses\Input addresses					
Start address	1012	End address	1015	Organization block	0
Process image	0				

High speed counters (HSC)\HSC4\Hardware identifier\Hardware identifier	
Hardware identifier	262

High speed counters (HSC)\HSC5\General\Enable	
Enable this high speed counter	0

High speed counters (HSC)\HSC5\General\Project information			
Name	HSC_5	Comment	

High speed counters (HSC)\HSC5\Function					
Type of counting	Count	Operating phase	Single phase		
Counting direction is specified by	User program (internal direction control)	Initial counting direction	Count up		
Frequency measuring period	-/-sec				

High speed counters (HSC)\HSC5\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		

High speed counters (HSC)\HSC5\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		

High speed counters (HSC)\HSC5\Event configuration\					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value4**	Counter value equal to reference value4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC5\Event configuration\					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset4**	External reset4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC5\Event configuration\					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction4**	Change of direction4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC5\Hardware inputs\					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC5\Hardware inputs\					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC5\Hardware inputs\					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC5\I/O addresses\Input addresses					
Start address	1016	**End address**	1019	**Organization block**	0
Process image	0				

High speed counters (HSC)\HSC5\Hardware identifier\Hardware identifier					
Hardware identifier	263				

High speed counters (HSC)\HSC6\General\Enable					
Enable this high speed counter	0				

High speed counters (HSC)\HSC6\General\Project information					
Name	HSC_6	**Comment**			

High speed counters (HSC)\HSC6\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				

High speed counters (HSC)\HSC6\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		

High speed counters (HSC)\HSC6\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		

High speed counters (HSC)\HSC6\Event configuration\					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value5**	Counter value equal to reference value5	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC6\Event configuration\					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0

Hardware interrupt:	0	External reset5	External reset5	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC6\Event configuration

Generate interrupt for change of direction event.	0	RidPrefixDirection-Change	49280	Event name:	0
Hardware interrupt:	0	Change of direction5	Change of direction5	ValueNull	0
ValueNull	0	EventPriority	6		

High speed counters (HSC)\HSC6\Hardware inputs

Clock generator input	---	HSCInput0_Status	1	Direction input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC6\Hardware inputs

Direction input	---	HSCInput1_Status	1	Clock generator input	---
Reset input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC6\Hardware inputs

Reset input	---	HSCInput2_Status	1	Clock generator input	---
Direction input	---	Adapter name the user control should use for the address string	HscChannel.AddressString	Adapter name the user control should use for the SpeedAndSourceDisplay	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				

High speed counters (HSC)\HSC6\I/O addresses\Input addresses

Start address	1020	End address	1023	Organization block	0
Process image	0				

High speed counters (HSC)\HSC6\Hardware identifier\Hardware identifier

Hardware identifier	264

Pulse generators (PTO/PWM)\PTO1/PWM1\General\Enable

Enable this pulse generator	1

Pulse generators (PTO/PWM)\PTO1/PWM1\General\Project information

Name	Pulse_1	Comment			

Pulse generators (PTO/PWM)\PTO1/PWM1\Parameter assignment\Pulse options

Signal type	PWM	Time base:	Milliseconds	Pulse duration format	S7 analog format
Cycle time	40ms	Initial pulse duration	14000S7 analog format		

Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs

Enable direction output	0

Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs

Pulse output	%Q4.0	PulseOutput1_Status	1	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		

Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs

PulseOutput2_Status	1	Pulse output	%Q4.0	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		

Pulse generators (PTO/PWM)\PTO1/PWM1\I/O addresses\Output addresses

Start address	1000	End address	1001	Organization block	0
Process image	0				

Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware identifier\Hardware identifier

Hardware identifier	265

Pulse generators (PTO/PWM)\PTO2/PWM2\General\Enable

Enable this pulse generator	0

Pulse generators (PTO/PWM)\PTO2/PWM2\General\Project information

Name	Pulse_2	Comment			

Pulse generators (PTO/PWM)\PTO2/PWM2\Parameter assignment\Pulse options

Signal type	PWM	Time base:	Milliseconds	Pulse duration format	Hundredths
Cycle time	100ms	Initial pulse duration	50Hundredths		

Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
Pulse output	%Q4.2	PulseOutput1_Status	1	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
PulseOutput2_Status	1	Pulse output	%Q4.2	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO2/PWM2\I/O addresses\Output addresses					
Start address	1002	End address	1003	Organization block	0
Process image	0				
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware identifier\Hardware identifier					
Hardware identifier	266				
Pulse generators (PTO/PWM)\PTO3/PWM3\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\General\Project information					
Name	Pulse_3	Comment			
Pulse generators (PTO/PWM)\PTO3/PWM3\Parameter assignment\Pulse options					
Signal type	PWM	Time base:	Milliseconds	Pulse duration format	Hundredths
Cycle time	100ms	Initial pulse duration	50Hundredths		
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
Pulse output	%Q4.0	PulseOutput1_Status	1	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
PulseOutput2_Status	1	Pulse output	%Q4.0	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO3/PWM3\I/O addresses\Output addresses					
Start address	1004	End address	1005	Organization block	0
Process image	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware identifier\Hardware identifier					
Hardware identifier	267				
Pulse generators (PTO/PWM)\PTO4/PWM4\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO4/PWM4\General\Project information					
Name	Pulse_4	Comment			
Pulse generators (PTO/PWM)\PTO4/PWM4\Parameter assignment\Pulse options					
Signal type	PWM	Time base:	Milliseconds	Pulse duration format	Hundredths
Cycle time	100ms	Initial pulse duration	50Hundredths		
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
Pulse output	%Q4.2	PulseOutput1_Status	1	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
PulseOutput2_Status	1	Pulse output	%Q4.2	Adapter name the user control should use for the address string	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	Adapter name the user control should use for the Output Source	PulseChannel.OutputSource		

Pulse generators (PTO/PWM)\PTO4/PWM4\I/O addresses\Output addresses

Start address	1006	End address	1007	Organization block	0
Process image	0				

Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware identifier\Hardware identifier

Hardware identifier	268

Startup

Startup after POWER ON	Warm restart - mode before POWER OFF	Comparison preset to actual configuration	Startup CPU even if mismatch	Configuration time for central and distributed I/O	60000ms
OBs should be interruptible	1				

Cycle

Cycle monitoring time	150ms			Enable minimum cycle time for cyclic OBs	0
Minimum cycle time	1ms				

Communication load

Cycle load due to communication	20%

System and clock memory\System memory bits

Enable the use of system memory byte	0	Address of system memory byte (MBx)	1	First cycle	
Diagnostic status changed		Always 1 (high)		Always 0 (low)	

System and clock memory\Clock memory bits

Enable the use of clock memory byte	0	Address of clock memory byte (MBx)	0	10 Hz clock	
5 Hz clock		2.5 Hz clock		2 Hz clock	
1.25 Hz clock		1 Hz clock		0.625 Hz clock	
0.5 Hz clock					

Web server\General

Activate Web server on all modules of this device	False	Permit access only with HTTPS	True		

Web server\Automatic update

Enable automatic update	True	Update interval	0s		

Web server\User interface languages

Assign project language		User interface languages	
English (United States)		German	
English (United States)		English	
English (United States)		French	
English (United States)		Spanish	
English (United States)		Italian	
English (United States)		Chinese (simplified)	

Web server\User management

User name	User rights
Everybody	

Web server\User defined web pages

Application name	HTML source path	Default HTML page	Files with dynamic content	Web DB number	Fragment DB number
		index.htm	.htm;.html	333	334

Web server\Overview of interfaces

Device	Interface	Enabled web server access
PLC_1	PROFINET interface_1	False

User interface languages

Assign project language		User interface languages	
English (United States)		German	
English (United States)		English	
English (United States)		French	
English (United States)		Spanish	
English (United States)		Italian	
English (United States)		Chinese (simplified)	

Time of day\Local time

Time zone	(UTC +01:00) Berlin, Bern, Brussels, Rome, Stockholm, Vienna

Time of day\Daylight saving time

Activate daylight saving time	1	Difference between standard and daylight saving time	60mins		

Time of day\Daylight saving time\Start of daylight saving time

Starting week of the month:	Last		Sunday	of	March
at	01:00 a.m.				

Time of day\Daylight saving time\Start of standard time

	Last		Sunday	of	October
at	02:00 a.m.				

Protection

Level of protection	No protection

Protection\Connection mechanisms

Permit access with PUT/GET communication from remote partner (PLC, HMI, OPC, ...)	False

Configuration control\Configuration control for central configuration

Allow to reconfigure the device via the user program	0

Anchor (AddressesOverviewMenu)

Inputs	True	Outputs	True	Address gaps	False

Slot | True

Anchor (AddressesOverviewMenu)\Overview of addresses

Type	Addr. from	Addr. to	Module	PIP	DP	PN	Rack	Slot
I	0	0	DI 8/DQ 6_1	None	-	-	0	1 1
I	64	67	AI 2_1	None	-	-	0	1 2
I	1000	1003	HSC_1	None	-	-	0	1 16
I	1004	1007	HSC_2	None	-	-	0	1 17
I	1008	1011	HSC_3	None	-	-	0	1 18
I	1012	1015	HSC_4	None	-	-	0	1 19
I	1016	1019	HSC_5	None	-	-	0	1 20
I	1020	1023	HSC_6	None	-	-	0	1 21
O	0	0	DI 8/DQ 6_1	None	-	-	0	1 1
O	1000	1001	Pulse_1	None	-	-	0	1 32
O	1002	1003	Pulse_2	None	-	-	0	1 33
O	1004	1005	Pulse_3	None	-	-	0	1 34
O	1006	1007	Pulse_4	None	-	-	0	1 35
O	4	4	DQ 4x24VDC_1	None	-	-	0	1 3
O	96	99	AQ 2x14BIT_1	None	-	-	0	2

Type	Addr. from	Addr. to	Module	PIP	DP	PN	Rack	Slot
I	0	0	DI 8/DQ 6_1					1 1

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Program blocks

Main [OB1]

Main Properties							
General							
Name	Main	**Number**	1	**Type**	OB	**Language**	LAD
Numbering	automatic						
Information							
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:
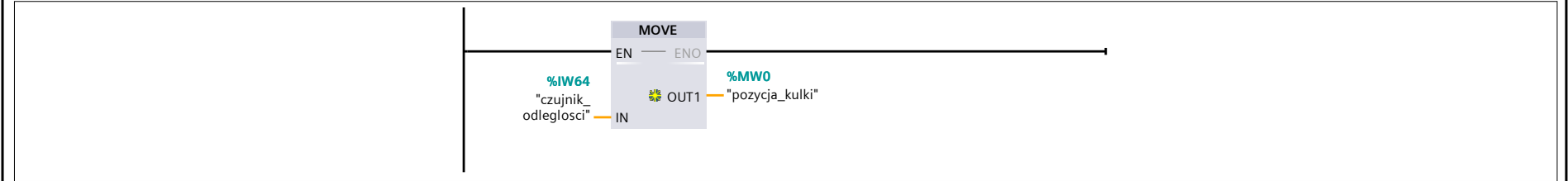
Symbol	Address	Type	Comment
"czujnik_odleglosci"	%IW64	Word	
"pozycja_kulki"	%MW0	Word	

Network 2:
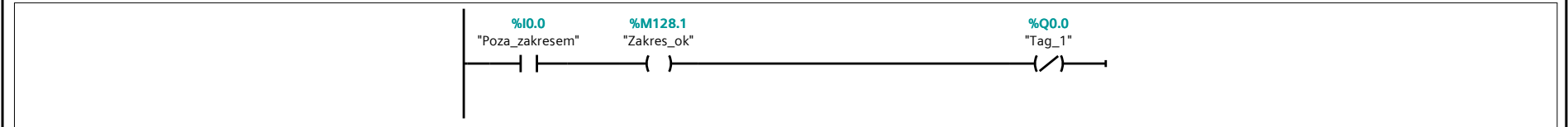
Symbol	Address	Type	Comment
"Poza_zakresem"	%I0.0	Bool	
"Tag_1"	%Q0.0	Bool	
"Zakres_ok"	%M128.1	Bool	

Network 3:
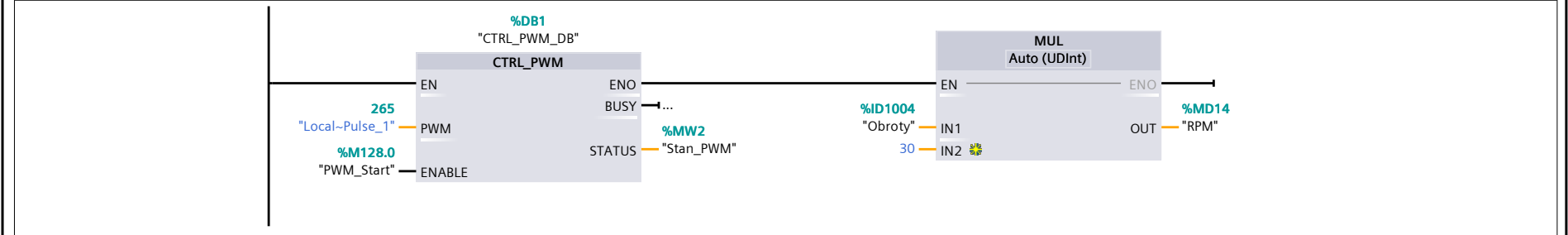
Symbol	Address	Type	Comment
"Local~Pulse_1"	265	HW_PWM	
"Obroty"	%ID1004	DWord	
"PWM_Start"	%M128.0	Bool	
"RPM"	%MD14	DWord	
"Stan_PWM"	%MW2	Word	

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Program blocks

Cyclic interrupt [OB30]

Cyclic interrupt Properties							
General							
Name	Cyclic interrupt	**Number**	30	**Type**	OB	**Language**	LAD
Numbering	automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Event_Count	Int		Events discarded
Temp			
Constant			

Network 1:
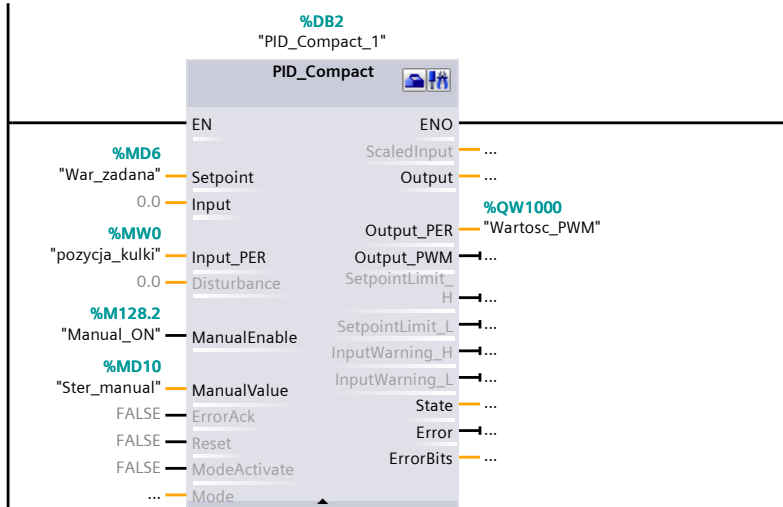
Symbol	Address	Type	Comment
"Manual_ON"	%M128.2	Bool	
"pozycja_kulki"	%MW0	Word	
"Ster_manual"	%MD10	Real	
"War_zadana"	%MD6	Real	
"Wartosc_PWM"	%QW1000	Word	

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Program blocks / System blocks / Program resources

CTRL_PWM_DB [DB1]

CTRL_PWM_DB Properties								
General								
Name	CTRL_PWM_DB	**Number**	1	**Type**	DB	**Language**	DB	
Numbering	automatic							
Information								
Title		**Author**	SIMATIC	**Comment**		**Family**	PULSE	
Version	1.0	**User-defined ID**	CTRL_PWM					

Name	Data type	Start value	Retain	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ Input							
PWM	HW_PWM	W#16#0	False	True	True	False	
ENABLE	Bool	False	False	True	True	False	
▼ Output							
BUSY	Bool	False	False	True	True	False	
STATUS	Word	W#16#0000	False	True	True	False	
InOut							
Static							

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Program blocks / System blocks / Program resources

PID_Compact [FB1130]

PID_Compact Properties							
General							
Name	PID_Compact	**Number**	1130	**Type**	FB	**Language**	SCL
Numbering	automatic						
Information							
Title	Compact PID_Controller with self-tuning	**Author**	SIMATIC	**Comment**		**Family**	COMPPID
Version	2.2	**User-defined ID**	PID_Cmpt				

Name	Data type	Default value	Retain	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ Input							
Setpoint	Real	0.0	Non-retain	True	True	False	controller setpoint input
Input	Real	0.0	Non-retain	True	True	False	actual value of process as REAL
Input_PER	Int	0	Non-retain	True	True	False	actual value of process from periphery
Disturbance	Real	0.0	Non-retain	True	True	False	disturbance intrusion
ManualEnable	Bool	FALSE	Non-retain	True	True	False	activate manual input to overwrite output
ManualValue	Real	0.0	Non-retain	True	True	False	input for manual value
ErrorAck	Bool	FALSE	Non-retain	True	True	False	reset error message
Reset	Bool	FALSE	Non-retain	True	True	False	reset the controller
ModeActivate	Bool	FALSE	Non-retain	True	True	False	enable mode
▼ Output							
ScaledInput	Real	0.0	Non-retain	True	True	False	scaled peripheral input value from process
Output	Real	0.0	Non-retain	True	True	False	output value in REAL format
Output_PER	Int	0	Non-retain	True	True	False	output value in peripheral format
Output_PWM	Bool	FALSE	Non-retain	True	True	False	pulse width modulated output value
SetpointLimit_H	Bool	FALSE	Non-retain	True	True	False	setpoint is limited at highest level
SetpointLimit_L	Bool	FALSE	Non-retain	True	True	False	setpoint is limited at lowest level
InputWarning_H	Bool	FALSE	Non-retain	True	True	False	input value exceeded high warning level
InputWarning_L	Bool	FALSE	Non-retain	True	True	False	input value exceeded low warning level
State	Int	0	Non-retain	True	True	False	status of controller (0=INACTIVE,1=SUT,2=TIR,3=AUTOMATIC,4=HAND)
Error	Bool	FALSE	Non-retain	True	True	False	error flag
ErrorBits	DWord	DW#16#00000000	Retain	True	True	False	error message
▼ InOut							
Mode	Int	4	Retain	True	True	False	mode selection
▼ Static							
InternalDiagnostic	DWord	0	Non-retain	False	False	False	internal diagnostic and version handling
InternalVersion	DWord	DW#16#02020001	Non-retain	True	True	False	version of controller
InternalRTVersion	DWord	0	Non-retain	False	False	False	version of runtime
IntegralResetMode	Int	1	Non-retain	True	True	True	0 smooth, 1 clear, 2 keep, 3 overwrite initial output
OverwriteInitialOutputValue	Real	0.0	Non-retain	True	True	False	initialisation output value for override control
RunModeByStartup	Bool	TRUE	Non-retain	True	True	True	go to last active state before reset or power cycle
LoadBackUp	Bool	FALSE	Non-retain	True	True	False	restore last parameter set
SetSubstituteOutput	Bool	TRUE	Non-retain	True	True	True	set output to last valid output value in Replacement Output state
PhysicalUnit	Int	0	Non-retain	True	True	True	unit of input and setpoint
PhysicalQuantity	Int	0	Non-retain	True	True	True	physical entity of input and setpoint
ActivateRecoverMode	Bool	TRUE	Non-retain	True	True	True	FALSE - go to inactive by error, TRUE - activate error treatment
Warning	DWord	DW#16#00000000	Retain	True	True	False	warning message
WarningInternal	DWord	DW#16#00000000	Retain	True	True	False	warning message
Progress	Real	0.0	Non-retain	True	True	False	current progress in percent
CurrentSetpoint	Real	0.0	Non-retain	True	True	False	current active setpoint value
CancelTuningLevel	Real	10.0	Non-retain	True	True	True	cancel level for setpoint change during tuning
SubstituteOutput	Real	0.0	Non-retain	True	True	True	substitute output value in case of error
▼ Config	PID_Compact-Config		Non-retain	True	True	False	configuration data set
InputPerOn	Bool	TRUE	Non-retain	True	True	True	activate peripheral input
InvertControl	Bool	FALSE	Non-retain	True	True	True	invert control direction
InputUpperLimit	Real	120.0	Non-retain	True	True	True	input (Process Value) upper limit

Name	Data type	Default value	Retain	Accessible from HMI	Visible in HMI	Setpoint	Comment
InputLowerLimit	Real	0.0	Non-retain	True	True	True	input (Process Value) lower limit
InputUpperWarning	Real	3.402822e+38	Non-retain	True	True	True	input (Process Value) upper level warning
InputLowerWarning	Real	-3.402822e+38	Non-retain	True	True	True	input (Process Value) lower level warning
OutputUpperLimit	Real	100.0	Non-retain	True	True	True	output value upper limit
OutputLowerLimit	Real	0.0	Non-retain	True	True	True	output value lower limit
SetpointUpperLimit	Real	3.402822e+38	Non-retain	True	True	True	setpoint upper limit value
SetpointLowerLimit	Real	-3.402822e+38	Non-retain	True	True	True	setpoint lower limit value
MinimumOnTime	Real	0.0	Non-retain	True	True	True	PWM minimum on time
MinimumOffTime	Real	0.0	Non-retain	True	True	True	PWM minimum off time
▼ InputScaling	PID_Scaling		Non-retain	True	True	False	input scaling
UpperPointIn	Real	27648.0	Non-retain	True	True	True	high value (input range of scaling)
LowerPointIn	Real	0.0	Non-retain	True	True	True	low value (input range of scaling)
UpperPointOut	Real	100.0	Non-retain	True	True	True	high value (output range of scaling)
LowerPointOut	Real	0.0	Non-retain	True	True	True	low value (output range of scaling)
▼ CycleTime	PID_CycleTime		Non-retain	True	True	False	data set for cycle time estimation
StartEstimation	Bool	TRUE	Non-retain	True	True	False	start automatic estimation of call cycle time
EnEstimation	Bool	TRUE	Non-retain	True	True	True	enable estimation of call cycle time
EnMonitoring	Bool	TRUE	Non-retain	True	True	True	enable monitoring of call cycle time
Value	Real	0.1	Non-retain	True	True	True	call cycle time
▼ CtrlParamsBackUp	PID_Compact-ControlParams		Non-retain	True	True	False	saved parameter set
Gain	Real	1.0	Non-retain	True	True	True	proportional gain
Ti	Real	20.0	Non-retain	True	True	True	reset time
Td	Real	0.0	Non-retain	True	True	True	derivative time
TdFiltRatio	Real	0.2	Non-retain	True	True	True	filter coefficient for derivative part
PWeighting	Real	1.0	Non-retain	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	1.0	Non-retain	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	1.0	Non-retain	True	True	True	PID Controller cycle time
▼ PIDSelfTune	PID_Compact-SelfTune		Non-retain	True	True	False	data set for self tuning
▼ SUT	PID_Compact_SUT		Non-retain	True	True	False	data set for start up tuning
CalculateParams	Bool	FALSE	Non-retain	True	True	False	recalculate control parameters with parameters of start-up tuning
TuneRule	Int	0	Non-retain	True	True	True	tuning rule for SUT (0-CHR PID,1-CHR PI)
State	Int	0	Non-retain	True	True	False	current phase of start up tuning
▼ TIR	PID_Compact_TIR		Non-retain	True	True	False	data set for tuning in run
RunIn	Bool	FALSE	Non-retain	True	True	False	activate run in setpoint without controling
CalculateParams	Bool	FALSE	Non-retain	True	True	False	recalculate control parameters with parameters of tuning in run
TuneRule	Int	0	Non-retain	True	True	True	tuning rule for TIR (0-2-A PID auto,fast,slow;3-ZN PID;4-ZN PI;5-ZN P)
State	Int	0	Non-retain	True	True	False	current phase of tuning in run
▼ PIDCtrl	PID_Compact-Control		Non-retain	True	True	False	data for controling part
IntegralSum	Real	0.0	Non-retain	True	True	False	signal of integral part
▼ Retain	PID_CompactRetain		Retain	True	True	False	retain data
▼ CtrlParams	PID_Compact-ControlParams		Retain	True	True	False	actual parameter set
Gain	Real	1.0	Retain	True	True	True	proportional gain
Ti	Real	20.0	Retain	True	True	True	reset time
Td	Real	0.0	Retain	True	True	True	derivative time
TdFiltRatio	Real	0.2	Retain	True	True	True	filter coefficient for derivative part
PWeighting	Real	1.0	Retain	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	1.0	Retain	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	1.0	Retain	True	True	True	PID Controller cycle time

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Technology objects

PID_Compact_1 [DB2]

PID_Compact_1 Properties							
General							
Name	PID_Compact_1	Number	2	Type	DB	Language	DB
Numbering	automatic						
Information							
Title		Author	SIMATIC	Comment		Family	COMPPID
Version	2.2	User-defined ID	PID_Cmpt				

Name	Data type	Start value	Retain	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ Input							
Setpoint	Real	0.0	False	True	True	False	controller setpoint input
Input	Real	0.0	False	True	True	False	actual value of process as REAL
Input_PER	Int	0	False	True	True	False	actual value of process from periphery
Disturbance	Real	0.0	False	True	True	False	disturbance intrusion
ManualEnable	Bool	FALSE	False	True	True	False	activate manual input to overwrite output
ManualValue	Real	0.0	False	True	True	False	input for manual value
ErrorAck	Bool	FALSE	False	True	True	False	reset error message
Reset	Bool	FALSE	False	True	True	False	reset the controller
ModeActivate	Bool	FALSE	False	True	True	False	enable mode
▼ Output							
ScaledInput	Real	0.0	False	True	True	False	scaled peripheral input value from process
Output	Real	0.0	False	True	True	False	output value in REAL format
Output_PER	Int	0	False	True	True	False	output value in peripheral format
Output_PWM	Bool	FALSE	False	True	True	False	pulse width modulated output value
SetpointLimit_H	Bool	FALSE	False	True	True	False	setpoint is limited at highest level
SetpointLimit_L	Bool	FALSE	False	True	True	False	setpoint is limited at lowest level
InputWarning_H	Bool	FALSE	False	True	True	False	input value exceeded high warning level
InputWarning_L	Bool	FALSE	False	True	True	False	input value exceeded low warning level
State	Int	0	False	True	True	False	status of controller (0=INACTIVE, 1=SUT,2=TIR,3=AUTOMATIC,4=HAND)
Error	Bool	FALSE	False	True	True	False	error flag
ErrorBits	DWord	DW#16#00000000	True	True	True	False	error message
▼ InOut							
Mode	Int	3	True	True	True	False	mode selection
▼ Static							
InternalDiagnostic	DWord	0	False	False	False	False	internal diagnostic and version handling
InternalVersion	DWord	DW#16#02020001	False	True	True	False	version of controller
InternalRTVersion	DWord	0	False	False	False	False	version of runtime
IntegralResetMode	Int	1	False	True	True	True	0 smooth, 1 clear, 2 keep, 3 overwrite initial output
OverwriteInitialOutputValue	Real	0.0	False	True	True	False	initialisation output value for override control
RunModeByStartup	Bool	TRUE	False	True	True	True	go to last active state before reset or power cycle
LoadBackUp	Bool	FALSE	False	True	True	False	restore last parameter set
SetSubstituteOutput	Bool	TRUE	False	True	True	True	set output to last valid output value in Replacement Output state
PhysicalUnit	Int	0	False	True	True	True	unit of input and setpoint
PhysicalQuantity	Int	0	False	True	True	True	physical entity of input and setpoint
ActivateRecoverMode	Bool	TRUE	False	True	True	True	FALSE - go to inactive by error, TRUE - activate error treatment
Warning	DWord	DW#16#00000000	True	True	True	False	warning message
WarningInternal	DWord	DW#16#00000000	True	True	True	False	warning message
Progress	Real	0.0	False	True	True	False	current progress in percent
CurrentSetpoint	Real	0.0	False	True	True	False	current active setpoint value
CancelTuningLevel	Real	10.0	False	True	True	True	cancel level for setpoint change during tuning
SubstituteOutput	Real	40.0	False	True	True	True	substitute output value in case of error
▼ Config	PID_Compact-Config		False	True	True	False	configuration data set
InputPerOn	Bool	TRUE	False	True	True	True	activate peripheral input
InvertControl	Bool	FALSE	False	True	True	True	invert control direction
InputUpperLimit	Real	100.0	False	True	True	True	input (Process Value) upper limit
InputLowerLimit	Real	0.0	False	True	True	True	input (Process Value) lower limit
InputUpperWarning	Real	3.402822e+38	False	True	True	True	input (Process Value) upper level warning
InputLowerWarning	Real	-3.402822e+38	False	True	True	True	input (Process Value) lower level warning
OutputUpperLimit	Real	70.0	False	True	True	True	output value upper limit
OutputLowerLimit	Real	40.0	False	True	True	True	output value lower limit
SetpointUpperLimit	Real	3.402822e+38	False	True	True	True	setpoint upper limit value
SetpointLowerLimit	Real	-3.402822e+38	False	True	True	True	setpoint lower limit value
MinimumOnTime	Real	0.0	False	True	True	True	PWM minimum on time
MinimumOffTime	Real	0.0	False	True	True	True	PWM minimum off time

Name	Data type	Start value	Retain	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ InputScaling	PID_Scaling		False	True	True	False	input scaling
UpperPointIn	Real	27611.0	False	True	True	True	high value (input range of scaling)
LowerPointIn	Real	0.0	False	True	True	True	low value (input range of scaling)
UpperPointOut	Real	100.0	False	True	True	True	high value (output range of scaling)
LowerPointOut	Real	0.0	False	True	True	True	low value (output range of scaling)
▼ CycleTime	PID_CycleTime		False	True	True	False	data set for cycle time estimation
StartEstimation	Bool	TRUE	False	True	True	False	start automatic estimation of call cycle time
EnEstimation	Bool	TRUE	False	True	True	True	enable estimation of call cycle time
EnMonitoring	Bool	TRUE	False	True	True	True	enable monitoring of call cycle time
Value	Real	0.1	False	True	True	True	call cycle time
▼ CtrlParamsBackUp	PID_Compact-ControlParams		False	True	True	False	saved parameter set
Gain	Real	1.0	False	True	True	True	proportional gain
Ti	Real	20.0	False	True	True	True	reset time
Td	Real	0.0	False	True	True	True	derivative time
TdFiltRatio	Real	0.2	False	True	True	True	filter coefficient for derivative part
PWeighting	Real	1.0	False	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	1.0	False	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	1.0	False	True	True	True	PID Controller cycle time
▼ PIDSelfTune	PID_Compact-SelfTune		False	True	True	False	data set for self tuning
▼ SUT	PID_Compact_SUT		False	True	True	False	data set for start up tuning
CalculateParams	Bool	FALSE	False	True	True	False	recalculate control parameters with parameters of startup tuning
TuneRule	Int	0	False	True	True	True	tuning rule for SUT (0-CHR PID,1-CHR PI)
State	Int	0	False	True	True	False	current phase of start up tuning
▼ TIR	PID_Compact_TIR		False	True	True	False	data set for tuning in run
RunIn	Bool	FALSE	False	True	True	False	activate run in setpoint without controling
CalculateParams	Bool	FALSE	False	True	True	False	recalculate control parameters with parameters of tuning in run
TuneRule	Int	0	False	True	True	True	tuning rule for TIR (0-2-A PID auto,fast,slow;3-ZN PID;4-ZN PI;5-ZN P)
State	Int	0	False	True	True	False	current phase of tuning in run
▼ PIDCtrl	PID_Compact-Control		False	True	True	False	data for controling part
IntegralSum	Real	0.0	False	True	True	False	signal of integral part
▼ Retain	PID_CompactRetain		True	True	True	False	retain data
▼ CtrlParams	PID_Compact-ControlParams		True	True	True	False	actual parameter set
Gain	Real	2.910965E-1	True	True	True	True	proportional gain
Ti	Real	2.812781	True	True	True	True	reset time
Td	Real	7.136555E-1	True	True	True	True	derivative time
TdFiltRatio	Real	0.1	True	True	True	True	filter coefficient for derivative part
PWeighting	Real	2.529754E-1	True	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	0.0	True	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	9.999911E-2	True	True	True	True	PID Controller cycle time

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC tags / Default tag table [46]

PLC tags

	Name	Data type	Address	Retain	Visible in HMI	Accessible from HMI	Comment
◄□	czujnik_odleglosci	Word	%IW64	False	True	True	
◄□	pozycja_kulki	Word	%MW0	False	True	True	
◄□	PWM_Start	Bool	%M128.0	False	True	True	
◄□	Zakres_ok	Bool	%M128.1	False	True	True	
◄□	Poza_zakresem	Bool	%I0.0	False	True	True	
◄□	Stan_PWM	Word	%MW2	False	True	True	
◄□	Zadany_PWM	Word	%MW4	False	True	True	
◄□	Wartosc_PWM	Word	%QW1000	False	True	True	
◄□	Manual_ON	Bool	%M128.2	False	True	True	
◄□	War_zadana	Real	%MD6	False	True	True	
◄□	Ster_manual	Real	%MD10	False	True	True	
◄□	Obroty	DWord	%ID1004	False	True	True	
◄□	RPM	DWord	%MD14	False	True	True	
◄□	blad_poz	Real	%MD20	False	True	True	
◄□	Tag_1	Bool	%Q0.0	False	True	True	

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC tags / Default tag table [46]

User constants

User constants			
Name	Data type	Value	Comment

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CompactConfig

PID_CompactConfig Properties						
General						
Name	PID_CompactConfig	**Number**	1134	**Type**	UDT	**Language**
Numbering						
Information						
Title	configuration data set	**Author**		**Comment**		**Family**
Version		**User-defined ID**				

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
InputPerOn	Bool	TRUE	True	True	True	activate peripheral input
InvertControl	Bool	FALSE	True	True	True	invert control direction
InputUpperLimit	Real	120.0	True	True	True	input (Process Value) upper limit
InputLowerLimit	Real	0.0	True	True	True	input (Process Value) lower limit
InputUpperWarning	Real	3.402822e+38	True	True	True	input (Process Value) upper level warning
InputLowerWarning	Real	-3.402822e+38	True	True	True	input (Process Value) lower level warning
OutputUpperLimit	Real	100.0	True	True	True	output value upper limit
OutputLowerLimit	Real	0.0	True	True	True	output value lower limit
SetpointUpperLimit	Real	3.402822e+38	True	True	True	setpoint upper limit value
SetpointLowerLimit	Real	-3.402822e+38	True	True	True	setpoint lower limit value
MinimumOnTime	Real	0.0	True	True	True	PWM minimum on time
MinimumOffTime	Real	0.0	True	True	True	PWM minimum off time
▼ InputScaling	PID_Scaling		True	True	False	input scaling
UpperPointIn	Real	27648.0	True	True	True	high value (input range of scaling)
LowerPointIn	Real	0.0	True	True	True	low value (input range of scaling)
UpperPointOut	Real	100.0	True	True	True	high value (output range of scaling)
LowerPointOut	Real	0.0	True	True	True	low value (output range of scaling)

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_Scaling

PID_Scaling Properties									
General									
Name	PID_Scaling	**Number**	1135	**Type**	UDT	**Language**			
Numbering									
Information									
Title	data for scaling	**Author**		**Comment**		**Family**			
Version		**User-defined ID**							

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
UpperPointIn	Real	27648.0	True	True	True	high value (input range of scaling)
LowerPointIn	Real	0.0	True	True	True	low value (input range of scaling)
UpperPointOut	Real	100.0	True	True	True	high value (output range of scaling)
LowerPointOut	Real	0.0	True	True	True	low value (output range of scaling)

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CycleTime

PID_CycleTime Properties									
General									
Name	PID_CycleTime	**Number**	1137	**Type**	UDT	**Language**			
Numbering									
Information									
Title	data set for cycle time estimation	**Author**		**Comment**		**Family**			
Version		**User-defined ID**							

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
StartEstimation	Bool	TRUE	True	True	False	start automatic estimation of call cycle time
EnEstimation	Bool	TRUE	True	True	True	enable estimation of call cycle time
EnMonitoring	Bool	TRUE	True	True	True	enable monitoring of call cycle time
Value	Real	0.1	True	True	True	call cycle time

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CompactControlParams

PID_CompactControlParams Properties								
General								
Name	PID_CompactControlParams	**Number**	1138	**Type**	UDT	**Language**		
Numbering								
Information								
Title	controling parameter set	**Author**		**Comment**		**Family**		
Version		**User-defined ID**						

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
Gain	Real	1.0	True	True	True	proportional gain
Ti	Real	20.0	True	True	True	reset time
Td	Real	0.0	True	True	True	derivative time
TdFiltRatio	Real	0.2	True	True	True	filter coefficient for derivative part
PWeighting	Real	1.0	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	1.0	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	1.0	True	True	True	PID Controller cycle time

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CompactSelfTune

PID_CompactSelfTune Properties									
General									
Name	PID_CompactSelfTune	**Number**	1139	**Type**	UDT	**Language**			
Numbering									
Information									
Title	data set for self tuning	**Author**		**Comment**		**Family**			
Version		**User-defined ID**							

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ SUT	PID_Compact_SUT		True	True	False	data set for start up tuning
CalculateParams	Bool	FALSE	True	True	False	recalculate control parameters with parameters of startup tuning
TuneRule	Int	0	True	True	True	tuning rule for SUT (0-CHR PID,1-CHR PI)
State	Int	0	True	True	False	current phase of start up tuning
▼ TIR	PID_Compact_TIR		True	True	False	data set for tuning in run
RunIn	Bool	FALSE	True	True	False	activate run in setpoint without controling
CalculateParams	Bool	FALSE	True	True	False	recalculate control parameters with parameters of tuning in run
TuneRule	Int	0	True	True	True	tuning rule for TIR (0-2-A PID auto,fast,slow;3-ZN PID;4-ZN PI;5-ZN P)
State	Int	0	True	True	False	current phase of tuning in run

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_GradientEstimation

PID_GradientEstimation Properties							
General							
Name	PID_GradientEstimation	**Number**	1508	**Type**	UDT	**Language**	
Numbering							
Information							
Title	structure for gradient esti-mation	**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_GradientParams

PID_GradientParams Properties								
General								
Name	PID_GradientParams	**Number**	1511	**Type**	UDT	**Language**	
Numbering								
Information								
Title	dataset of parameters for gradient estimation	**Author**		**Comment**		**Family**	
Version		**User-defined ID**					

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_StandardDeviation

PID_StandardDeviation Properties								
General								
Name	PID_StandardDeviation	**Number**	1509	**Type**	UDT	**Language**		
Numbering								
Information								
Title	data for estimation of deviance	**Author**		**Comment**		**Family**		
Version		**User-defined ID**						

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_Compact_SUT

PID_Compact_SUT Properties									
General									
Name	PID_Compact_SUT	**Number**	1142	**Type**	UDT		**Language**		
Numbering									
Information									
Title	data set for start up tuning	**Author**		**Comment**			**Family**		
Version		**User-defined ID**							

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
CalculateParams	Bool	FALSE	True	True	False	recalculate control parameters with parameters of startup tuning
TuneRule	Int	0	True	True	True	tuning rule for SUT (0-CHR PID,1-CHR PI)
State	Int	0	True	True	False	current phase of start up tuning

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_Compact_TIR

PID_Compact_TIR Properties								
General								
Name	PID_Compact_TIR	**Number**	1143	**Type**	UDT	**Language**		
Numbering								
Information								
Title	data set for tuning in run	**Author**		**Comment**		**Family**		
Version		**User-defined ID**						

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
RunIn	Bool	FALSE	True	True	False	activate run in setpoint without controling
CalculateParams	Bool	FALSE	True	True	False	recalculate control parameters with parameters of tuning in run
TuneRule	Int	0	True	True	True	tuning rule for TIR (0-2-A PID auto,fast,slow;3-ZN PID;4-ZN PI;5-ZN P)
State	Int	0	True	True	False	current phase of tuning in run

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CompactControl

PID_CompactControl Properties								
General								
Name	PID_CompactControl	**Number**	1144	**Type**	UDT	**Language**		
Numbering								
Information								
Title	data for controling part	**Author**		**Comment**		**Family**		
Version		**User-defined ID**						

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
IntegralSum	Real	0.0	True	True	False	signal of integral part

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / PLC data types

PID_CompactRetain

PID_CompactRetain Properties									
General									
Name	PID_CompactRetain	**Number**	1145	**Type**	UDT	**Language**			
Numbering									
Information									
Title	retain data	**Author**		**Comment**		**Family**			
Version		**User-defined ID**							

Name	Data type	Default value	Accessible from HMI	Visible in HMI	Setpoint	Comment
▼ CtrlParams	PID_CompactControl-Params		True	True	False	actual parameter set
Gain	Real	1.0	True	True	True	proportional gain
Ti	Real	20.0	True	True	True	reset time
Td	Real	0.0	True	True	True	derivative time
TdFiltRatio	Real	0.2	True	True	True	filter coefficient for derivative part
PWeighting	Real	1.0	True	True	True	weigthing of proportional part in direct, feedback path
DWeighting	Real	1.0	True	True	True	weigthing of derivative part in direct, feedback path
Cycle	Real	1.0	True	True	True	PID Controller cycle time

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Watch and force tables

Force table

Name	Address	Display format	Force value	Comment

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Traces

Measurements

This folder is empty.

Project2 / PLC_1 [CPU 1212C AC/DC/Rly]

Text lists

This folder is empty.

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Local modules

DQ 4x24VDC_1

DQ 4x24VDC_1					
General\Project information					
Name	DQ 4x24VDC_1	Comment			
General\Catalog information					
Short designation	DQ4 signal board (200 kHz)	Description	Signal board DQ4 x 24VDC / 200 kHz; plug-in terminal blocks	Article number	6ES7 222-1BD30-0XB0
Firmware version	V1.0				
Digital outputs					
Reaction to CPU STOP	Use substitute value				
Digital outputs\Channel0					
Channel address	Q4.0	Substitute a value of 1 on a change from RUN to STOP.	0		
Digital outputs\Channel1					
Channel address	Q4.1	Substitute a value of 1 on a change from RUN to STOP.	0		
Digital outputs\Channel2					
Channel address	Q4.2	Substitute a value of 1 on a change from RUN to STOP.	0		
Digital outputs\Channel3					
Channel address	Q4.3	Substitute a value of 1 on a change from RUN to STOP.	0		
I/O addresses\Output addresses					
Start address	4	End address	4	Organization block	0
Process image	0				
Hardware identifier\Hardware identifier					
Hardware identifier	269				

Project2 / PLC_1 [CPU 1212C AC/DC/Rly] / Local modules

AQ 2x14BIT_1

AQ 2x14BIT_1					
General\Project information					
Name	AQ 2x14BIT_1	**Author**	admin	**Comment**	
Slot	2				
General\Catalog information					
Short designation	SM 1232 AQ2	**Description**	Analog output module AQ2 x 14 bits; plug-in terminal blocks; output: +/-10V and 0 to 20 mA; selectable diagnostics; selectable substitute value for output	**Article number**	6ES7 232-4HB32-0XB0
Firmware version	V2.0				
AQ 2\Project information					
Name	AQ 2x14BIT_1	**Comment**			
AQ 2\Module diagnostics					
Enable power supply diagnostics	1	**Additional diagnostics may be selected for each input/output.**			
AQ 2\Analog outputs					
Reaction to CPU STOP	Use substitute value				
AQ 2\Analog outputs\Channel0					
Channel address	QW96	**Analog output type**	Voltage	**Voltage range**	+/- 10 V
Substitute value for channel on a change from RUN to STOP	0.000V			**Enable short circuit diagnostics**	1
Enable overflow diagnostics	1	**Enable underflow diagnostics**	1		
AQ 2\Analog outputs\Channel1					
Channel address	QW98	**Analog output type**	Voltage	**Voltage range**	+/- 10 V
Substitute value for channel on a change from RUN to STOP	0.000V			**Enable short circuit diagnostics**	1
Enable overflow diagnostics	1	**Enable underflow diagnostics**	1		
AQ 2\I/O addresses\Output addresses					
Start address	96	**End address**	99	**Organization block**	0
Process image	0				
AQ 2\Hardware identifier\Hardware identifier					
Hardware identifier	270				

Project2

HMI_1 [KTP400 Basic PN]

HMI_1	
General	
Name	HMI_1

Project2 / HMI_1 [KTP400 Basic PN]

Runtime settings

General

Start screen	Screen_1	Default template		Default style of the project	Checked
Style of the HMI device	WinCC Dark V 1.0.1	Adapt font size to style	Checked	Screen resolution	480, 272
Project ID	0	Logging language	Startup language		

Screens

Bit selection for text and graphic lists	Off	User-defined pictogram size	Unchecked	X,Y:	64, 45

Keyboard

Use screen keyboard	Checked	Release button on exit	Unchecked	Disable dialog window function keys	Unchecked

Alarms

Controller alarms

Buffer overflow	10 %	Acknowledgment group text	QGR	Use alarm class color	Unchecked
System event duration	2 Seconds	Connection	HMI_Connection_1		

User administration

Enable limit for logon attempts	Checked	Invalid logon attempts	3	Logon with password	Unchecked
Group-specific rights	Unchecked	Password aging	Unchecked	Validity period	90
Warning period	7	Password generations	3	At least one special character	Unchecked
At least one number	Unchecked	Minimum password length	3		

Language & font

Preset runtime language:		English (USA)

English (USA)					
Runtime language	Checked	Fixed font 1	Tahoma	Default font	Tahoma, 11 Pixel
Configured font 1					

Tag settings

Replace the separator on each sub-level of the path of the PLC tag:	Checked	Compatibility mode: Set '_' between the PLC tags and the first-level element.	Unchecked	Replace the '.' character if the name of the HMI tag is created from the PLC tag name	Checked
Use '_' as the replacement character	Checked	Use ';' as the replacement character	Unchecked	Replace the characters '[' and ']' if the name of the HMI tag is created from the PLC tag name	Checked
Use '{' and '}' as replacement characters	Checked	Use '(' and ')' as replacement characters	Unchecked	Connection	HMI_Connection_1
PLC name as prefix in the HMI tag name	Unchecked				

Project2 / HMI_1 [KTP400 Basic PN] / Screens

Screen_1

Hardcopy of Screen_1
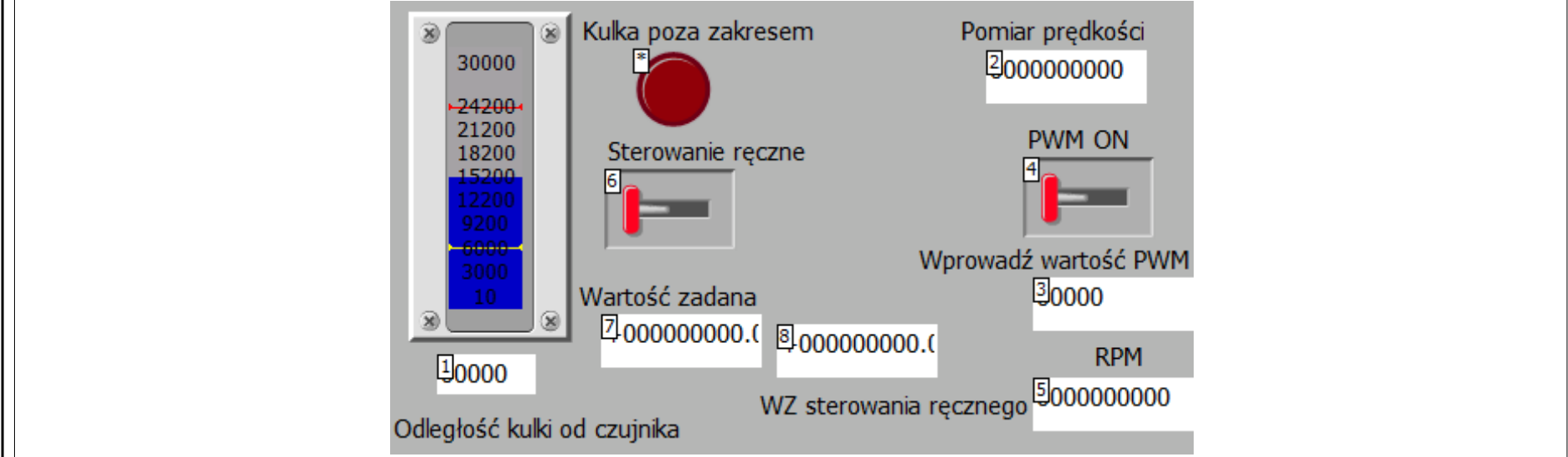
General						
Name	Screen_1	**Background color**	181, 182, 181	**Grid color**	0, 0, 0
Number	1	**Template**		**Tooltip**	

Layers			
Active layer	0		

Layer_0	Checked
Layer_1	Checked
Layer_2	Checked
Layer_3	Checked
Layer_4	Checked
Layer_5	Checked
Layer_6	Checked
Layer_7	Checked
Layer_8	Checked
Layer_9	Checked
Layer_10	Checked
Layer_11	Checked
Layer_12	Checked
Layer_13	Checked
Layer_14	Checked
Layer_15	Checked
Layer_16	Checked
Layer_17	Checked
Layer_18	Checked
Layer_19	Checked
Layer_20	Checked
Layer_21	Checked
Layer_22	Checked
Layer_23	Checked
Layer_24	Checked
Layer_25	Checked
Layer_26	Checked
Layer_27	Checked
Layer_28	Checked
Layer_29	Checked
Layer_30	Checked
Layer_31	Checked

I/O field_1

Type	I/O field				
General					
Display format	Decimal	**Field length**	5	**Format pattern**	99999
Mode	Input/output	**Process value**		**Shift decimal point**	0
Show leading zeros	Unchecked				
Appearance					
Background color	255, 255, 255	**Background fill pattern**	Solid	**Border background color**	255, 255, 255
Border color	0, 0, 0	**Border width**	0	**Line style**	Solid
Foreground color	0, 0, 0	**Unit**		**Corner radius**	0
Characteristics					
Hidden input	Unchecked				
Layout					
Bottom margin	2	**Fit to size**	Unchecked	**Height**	24
X position	28	**Left margin**	2	**Right margin**	2
Y position	212	**Top margin**	2	**Width**	59
Text format					
Font	Tahoma, 15px	**Horizontal alignment**	Left	**Orientation**	Horizontal
Vertical alignment	Top				
Limits					
Color for High limit violated	255, 0, 0	**Color for Low limit violated**	255, 255, 0		

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Tooltip		Layer	0 - Layer_0	Name	I/O field_1

Security

Authorization		Allow operator control	Checked		

Dynamizations\Tag connection

Property name	Process value	Tag	pozycja_kulki		

D4_Control_4

Type	Group				

Layout

Height	200	X position	11	Y position	7
Width	100				

Miscellaneous

Layer	0 - Layer_0	Name	D4_Control_4		

D4_Slider_Frame_Vertical_Small_4

Type	Graphic view				

General

Graphic	Design_4_Slider_Frame_Vertical_Small				

Appearance

Background color	181, 182, 181	Background fill pattern	Transparent	Border color	0, 0, 0
Border width	0	Line style	Solid		

Layout

Auto-size	Stretch screen	Fit to size	Unchecked	Height	200
X position	11	Y position	7	Width	100

Miscellaneous

Layer	0 - Layer_0	Name	D4_Slider_Frame_Vertical_Small_4		

D4_Bar_4

Type	Bar				

General

Maximum value	30000	Minimum value	10	Process value	0

Appearance

Background color	165, 162, 165	Segment coloring	Entire bar	Foreground color	0, 0, 198
Color of scale	0, 0, 0	Limit lines (layout)	Checked	Limit marking (layout)	Unchecked

Border type

Border background color	255, 255, 255	Border color	0, 0, 0	Border width	0
Corner radius (border)	0	Border frame style	Solid		

Scales

Divisions	5	Large mark labeling	2	Scale gradation	10
Show scale	Checked	Auto-scale	Unchecked		

Label

Integer digits	5	Decimal places	0	Double-lined scale label	Unchecked
Show "+" for positive numbers	Unchecked	Show scale marks	Checked	Use exponential format	Unchecked
Unit					

Layout

Bar orientation	Top	Height	157	X position	35
Scale position	Right/down	Y position	28	Width	44

Text format

Font	Tahoma, 13px				

Limits

Color low limit alarms	255, 255, 0	Color high limit alarms	255, 0, 0		

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Layer	0 - Layer_0	Name	D4_Bar_4		

Dynamizations\Tag connection

Property name	Process value	Tag	pozycja_kulki		

PlotLight_Round_R

Type	Graphic I/O field				

General

Bit number	0	Mode	Two states	Value status ON	1
Graphic list		Graphic OFF	PilotLight_Round_R_Off_256c	Graphic ON	PilotLight_Round_R_On_256c
Process value	0				

Appearance

Background color	181, 182, 181	Background fill pattern	Solid	Border color	0, 0, 0
Border width	0	Line style	Solid	Focus color	0, 0, 0
Focus width	1				

Layout

X position	145	Width	50	Y position	29
Height	50	Fit embedded graphic object to screen size	Fit graphic to object size	Auto-size	Stretch screen

Fit to size	Unchecked				
Limits					
Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		
Miscellaneous					
Tooltip		Layer	0 - Layer_0	Name	PlotLight_Round_R
Security					
Authorization		Allow operator control	Checked		
Dynamizations\Tag connection					
Property name	Process value	Tag	Zakres_ok		

Text field_1

Type	Text field				
General					
Text	Odległość kulki od czujnika				
Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		
Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	0	Left margin	2	Right margin	2
Y position	245	Top margin	2	Width	175
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Flashing					
Flashing	None				
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Layer	0 - Layer_0	Name	Text field_1		

Text field_2

Type	Text field				
General					
Text	Kulka poza zakresem				
Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		
Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	113	Left margin	2	Right margin	2
Y position	7	Top margin	2	Width	142
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Flashing					
Flashing	None				
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Layer	0 - Layer_0	Name	Text field_2		

I/O field_2

Type	I/O field				
General					
Display format	Decimal	Field length	10	Format pattern	9999999999
Mode	Input/output	Process value		Shift decimal point	0
Show leading zeros	Unchecked				
Appearance					
Background color	255, 255, 255	Background fill pattern	Solid	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Unit		Corner radius	0
Characteristics					
Hidden input	Unchecked				
Layout					
Bottom margin	2	Fit to size	Unchecked	Height	32
X position	356	Left margin	2	Right margin	2
Y position	30	Top margin	2	Width	96
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Limits					
Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		

Styles/Designs					
Use style/design	Unchecked	Style item appearance			

Miscellaneous					
Tooltip		Layer	0 - Layer_0	Name	I/O field_2

Security					
Authorization		Allow operator control	Checked		

Dynamizations\Tag connection					
Property name	Process value	Tag	Obroty		

Text field_3

Type	Text field				

General					
Text	Pomiar prędkości				

Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		

Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	339	Left margin	2	Right margin	2
Y position	7	Top margin	2	Width	113

Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Flashing					
Flashing	None				

Styles/Designs					
Use style/design	Unchecked	Style item appearance			

Miscellaneous					
Layer	0 - Layer_0	Name	Text field_3		

Text field_4

Type	Text field				

General					
Text	Wprowadź wartość PWM				

Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		

Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	314	Left margin	2	Right margin	2
Y position	144	Top margin	2	Width	166

Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Flashing					
Flashing	None				

Styles/Designs					
Use style/design	Unchecked	Style item appearance			

Miscellaneous					
Layer	0 - Layer_0	Name	Text field_4		

I/O field_3

Type	I/O field				

General					
Display format	Decimal	Field length	5	Format pattern	99999
Mode	Input/output	Process value		Shift decimal point	0
Show leading zeros	Unchecked				

Appearance					
Background color	255, 255, 255	Background fill pattern	Solid	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Unit		Corner radius	0

Characteristics					
Hidden input	Unchecked				

Layout					
Bottom margin	2	Fit to size	Unchecked	Height	32
X position	384	Left margin	2	Right margin	2
Y position	166	Top margin	2	Width	96

Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Limits					
Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		

Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Tooltip		Layer	0 - Layer_0	Name	I/O field_3
Security					
Authorization		Allow operator control	Checked		
Dynamizations\Tag connection					
Property name	Process value	Tag	Wartosc_PWM		

Lever_Horizontal_1

Type	Switch				
General					
Mode	Switch with graphic	Value status ON	1	Process value	
Graphic OFF	Lever_Horizontal_1_Off_256c	Graphic ON	Lever_Horizontal_1_On_256c	Text OFF	0
Text ON	1				
Appearance					
Background color	181, 182, 181	Background color (button border)	255, 255, 255	Foreground color	0, 0, 0
Inner background color OFF	255, 255, 255	Inner background color ON	255, 255, 255	Background fill pattern	Solid
Corner radius	0				
Fill pattern					
Background color gradient (button fill pattern)	132, 130, 132	Gradient 1 (button fill pattern)	Unchecked	Gradient 2 (button fill pattern)	Unchecked
Color gradient 1 (button fill pattern)	214, 211, 214	Color gradient 2 (button fill pattern)	173, 170, 173	Offset gradient 1 (button fill pattern)	14
Offset gradient 2 (button fill pattern)	14				
Design					
Focus color	0, 0, 0	Focus width	1		
Layout					
Fit to size	Unchecked	Height	50	X position	378
Switch orientation	Left to right	Y position	94	Width	80
Margin left graphic (layout)	0	Margin top graphic (layout)	0	Margin right graphic (layout)	0
Margin bottom graphic (layout)	0	Margin left text (layout)	0	Margin top text (layout)	0
Margin right text (layout)	0	Margin bottom text (layout)	0	Horizontal alignment of the graphic	Centered
Vertical alignment of the graphic	Middle	Fit to size	Stretch screen		
Text format					
Font	Tahoma, 16px	Horizontal alignment of the text	Centered	Vertical alignment of the text	Middle
Limits					
Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Tooltip		Layer	0 - Layer_0	Name	Lever_Horizontal_1
Alignment	Horizontal				
Security					
Authorization		Allow operator control	Checked		
Dynamizations\Tag connection					
Property name	Process value	Tag	PWM_Start		

Text field_5

Type	Text field				
General					
Text	PWM ON				
Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		
Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	379	Left margin	2	Right margin	2
Y position	72	Top margin	2	Width	64
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Flashing					
Flashing	None				
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Layer	0 - Layer_0	Name	Text field_5		

I/O field_4

Type	I/O field	

General

Display format	Decimal	Field length	10	Format pattern	9999999999
Mode	Input/output	Process value		Shift decimal point	0
Show leading zeros	Unchecked				

Appearance

Background color	255, 255, 255	Background fill pattern	Solid	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Unit		Corner radius	0

Characteristics

Hidden input	Unchecked		

Layout

Bottom margin	2	Fit to size	Unchecked	Height	32
X position	384	Left margin	2	Right margin	2
Y position	226	Top margin	2	Width	96

Text format

Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Limits

Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Tooltip		Layer	0 - Layer_0	Name	I/O field_4

Security

Authorization		Allow operator control	Checked		

Dynamizations\Tag connection

Property name	Process value	Tag	RPM		

Text field_6

Type	Text field	

General

Text	RPM	

Appearance

Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		

Layout

Bottom margin	2	Fit to size	Checked	Height	22
X position	419	Left margin	2	Right margin	2
Y position	202	Top margin	2	Width	33

Text format

Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Flashing

Flashing	None	

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Layer	0 - Layer_0	Name	Text field_6	

Text field_7

Type	Text field	

General

Text	Sterowanie ręczne	

Appearance

Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		

Layout

Bottom margin	2	Fit to size	Checked	Height	22
X position	128	Left margin	2	Right margin	2
Y position	79	Top margin	2	Width	122

Text format

Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Flashing

Flashing	None	

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Layer	0 - Layer_0	Name	Text field_7	

Lever_Horizontal_2

Type	Switch	

General

Mode	Switch with graphic	Value status ON	1	Process value	

Graphic OFF	Lever_Horizontal_1_Off_256c	Graphic ON	Lever_Horizontal_1_On_256c	Text OFF	0
Text ON	1				

Appearance

Background color	181, 182, 181	Background color (button border)	255, 255, 255	Foreground color	0, 0, 0
Inner background color OFF	255, 255, 255	Inner background color ON	255, 255, 255	Background fill pattern	Solid
Corner radius	0				

Fill pattern

Background color gradient (button fill pattern)	132, 130, 132	Gradient 1 (button fill pattern)	Unchecked	Gradient 2 (button fill pattern)	Unchecked
Color gradient 1 (button fill pattern)	214, 211, 214	Color gradient 2 (button fill pattern)	173, 170, 173	Offset gradient 1 (button fill pattern)	14
Offset gradient 2 (button fill pattern)	14				

Design

Focus color	0, 0, 0	Focus width	1		

Layout

Fit to size	Unchecked	Height	50	X position	128
Switch orientation	Left to right	Y position	101	Width	80
Margin left graphic (layout)	0	Margin top graphic (layout)	0	Margin right graphic (layout)	0
Margin bottom graphic (layout)	0	Margin left text (layout)	0	Margin top text (layout)	0
Margin right text (layout)	0	Margin bottom text (layout)	0	Horizontal alignment of the graphic	Centered
Vertical alignment of the graphic	Middle	Fit to size	Stretch screen		

Text format

Font	Tahoma, 16px	Horizontal alignment of the text	Centered	Vertical alignment of the text	Middle

Limits

Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Tooltip		Layer	0 - Layer_0	Name	Lever_Horizontal_2
Alignment	Horizontal				

Security

Authorization		Allow operator control	Checked		

Dynamizations\Tag connection

Property name	Process value	Tag	Manual_ON		

I/O field_5

Type	I/O field		

General

Display format	Decimal	Field length	13	Format pattern	s999999999.999
Mode	Input/output	Process value		Shift decimal point	0
Show leading zeros	Unchecked				

Appearance

Background color	255, 255, 255	Background fill pattern	Solid	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Unit		Corner radius	0

Characteristics

Hidden input	Unchecked		

Layout

Bottom margin	2	Fit to size	Unchecked	Height	32
X position	126	Left margin	2	Right margin	2
Y position	188	Top margin	2	Width	96

Text format

Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				

Limits

Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		

Styles/Designs

Use style/design	Unchecked	Style item appearance			

Miscellaneous

Tooltip		Layer	0 - Layer_0	Name	I/O field_5

Security

Authorization		Allow operator control	Checked		

Dynamizations\Tag connection

Property name	Process value	Tag	War_zadana		

Text field_8

Type	Text field		

General

Text	Wartość zadana		

Appearance

Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid

Foreground color	0, 0, 0	Corner radius (border)	0		
Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	111	Left margin	2	Right margin	2
Y position	166	Top margin	2	Width	110
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Flashing					
Flashing	None				
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Layer	0 - Layer_0	Name	Text field_8		

I/O field_6

Type	I/O field				
General					
Display format	Decimal	Field length	13	Format pattern	s999999999.999
Mode	Input/output	Process value		Shift decimal point	0
Show leading zeros	Unchecked				
Appearance					
Background color	255, 255, 255	Background fill pattern	Solid	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Unit		Corner radius	0
Characteristics					
Hidden input	Unchecked				
Layout					
Bottom margin	2	Fit to size	Unchecked	Height	32
X position	231	Left margin	2	Right margin	2
Y position	194	Top margin	2	Width	96
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Limits					
Color for High limit violated	255, 0, 0	Color for Low limit violated	255, 255, 0		
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Tooltip		Layer	0 - Layer_0	Name	I/O field_6
Security					
Authorization		Allow operator control	Checked		
Dynamizations\Tag connection					
Property name	Process value	Tag	Ster_manual		

Text field_9

Type	Text field				
General					
Text	WZ sterowania ręcznego				
Appearance					
Background color	156, 154, 206	Background fill pattern	Transparent	Border background color	255, 255, 255
Border color	0, 0, 0	Border width	0	Line style	Solid
Foreground color	0, 0, 0	Corner radius (border)	0		
Layout					
Bottom margin	2	Fit to size	Checked	Height	22
X position	219	Left margin	2	Right margin	2
Y position	231	Top margin	2	Width	164
Text format					
Font	Tahoma, 15px	Horizontal alignment	Left	Orientation	Horizontal
Vertical alignment	Top				
Flashing					
Flashing	None				
Styles/Designs					
Use style/design	Unchecked	Style item appearance			
Miscellaneous					
Layer	0 - Layer_0	Name	Text field_9		

Project2 / HMI_1 [KTP400 Basic PN] / Screen management

Templates

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / Screen management

Global screen

Hardcopy of Global screen

General					
Name	Global screen	**Background color**	181, 182, 181	**Grid color**	0, 0, 0

Project2 / HMI_1 [KTP400 Basic PN] / HMI tags

Default tag table [12]

Swiatlo

General					
Name	Swiatlo	Connection	HMI_Connection_1	Data type	Bool
Array elements	0	Length	1	Address	%Q0.0
Access mode	<absolute access>	PLC tag	Tag_1	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	100 ms	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

pozycja_kulki

General					
Name	pozycja_kulki	Connection	HMI_Connection_1	Data type	Word
Array elements	0	Length	2	Address	
Access mode	<symbolic access>	PLC tag	pozycja_kulki	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	100 ms	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Zakres_ok

General					
Name	Zakres_ok	Connection	HMI_Connection_1	Data type	Bool
Array elements	0	Length	1	Address	
Access mode	<symbolic access>	PLC tag	Zakres_ok	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Stan_PWM

General					
Name	Stan_PWM	Connection	HMI_Connection_1	Data type	Word
Array elements	0	Length	2	Address	
Access mode	<symbolic access>	PLC tag	Stan_PWM	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		

Miscellaneous			
ID tag		Start value	
Comment			
Comment		Source comment	
Multiplexing			
Multiplexing	Unchecked	Index tag	

PWM_Start

General					
Name	PWM_Start	Connection	HMI_Connection_1	Data type	Bool
Array elements	0	Length	1	Address	
Access mode	<symbolic access>	PLC tag	PWM_Start	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Zadany_PWM

General					
Name	Zadany_PWM	Connection	HMI_Connection_1	Data type	Word
Array elements	0	Length	2	Address	
Access mode	<symbolic access>	PLC tag	Zadany_PWM	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Wartosc_PWM

General					
Name	Wartosc_PWM	Connection	HMI_Connection_1	Data type	Word
Array elements	0	Length	2	Address	
Access mode	<symbolic access>	PLC tag	Wartosc_PWM	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Obroty

General					
Name	Obroty	Connection	HMI_Connection_1	Data type	DWord
Array elements	0	Length	4	Address	
Access mode	<symbolic access>	PLC tag	Obroty	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		

Miscellaneous			
ID tag		Start value	
Comment			
Comment		Source comment	
Multiplexing			
Multiplexing	Unchecked	Index tag	

RPM

General					
Name	RPM	Connection	HMI_Connection_1	Data type	DWord
Array elements	0	Length	4	Address	
Access mode	<symbolic access>	PLC tag	RPM	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Manual_ON

General					
Name	Manual_ON	Connection	HMI_Connection_1	Data type	Bool
Array elements	0	Length	1	Address	
Access mode	<symbolic access>	PLC tag	Manual_ON	Coding	Binary
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

Ster_manual

General					
Name	Ster_manual	Connection	HMI_Connection_1	Data type	Real
Array elements	0	Length	4	Address	
Access mode	<symbolic access>	PLC tag	Ster_manual	Coding	IEEE754
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		
Miscellaneous					
ID tag		Start value			
Comment					
Comment		Source comment			
Multiplexing					
Multiplexing	Unchecked	Index tag			

War_zadana

General					
Name	War_zadana	Connection	HMI_Connection_1	Data type	Real
Array elements	0	Length	4	Address	
Access mode	<symbolic access>	PLC tag	War_zadana	Coding	IEEE754
PLC name	PLC_1				
Settings					
Acquisition cycle	1 s	Acquisition mode	Cyclic in operation		
Limits					
Maximum		Minimum			
Linear scaling					
Linear scaling	Unchecked	PLC value range end value	10	PLC value range start value	0
HMI device value range end value	100	HMI device value range start value	0		

Miscellaneous

ID tag		Start value	

Comment

Comment		Source comment	

Multiplexing

Multiplexing	Unchecked	Index tag	

Miscellaneous

ID tag		Start value	

Comment

Comment		Source comment	

Multiplexing

Multiplexing	Unchecked	Index tag	

Project2 / HMI_1 [KTP400 Basic PN]

Connections

HMI_Connection_1

Name	HMI_Connection_1	Communication driver	SIMATIC S7 1200	Comment	
Online	Checked	Station	S7-1200 station_1	Partner	PLC_1
Node	CPU 1212C AC/DC/Rly, PROFINET interface (R0/S1)	HMI time synchronization mode	None		

Parameter

HMI device					
Interface	PROFINET (X1)	Address	192.168.0.2	Access point	S7ONLINE
PLC					
Address	192.168.0.1				

Project2 / HMI_1 [KTP400 Basic PN] / HMI alarms

Discrete alarms

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / HMI alarms

Analog alarms

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / HMI alarms

Alarm groups

Alarm_group_1

General			
Name	Alarm_group_1	ID	1

Alarm_group_10

General			
Name	Alarm_group_10	ID	10

Alarm_group_11

General			
Name	Alarm_group_11	ID	11

Alarm_group_12

General			
Name	Alarm_group_12	ID	12

Alarm_group_13

General			
Name	Alarm_group_13	ID	13

Alarm_group_14

General			
Name	Alarm_group_14	ID	14

Alarm_group_15

General			
Name	Alarm_group_15	ID	15

Alarm_group_16

General			
Name	Alarm_group_16	ID	16

Alarm_group_2

General			
Name	Alarm_group_2	ID	2

Alarm_group_3

General			
Name	Alarm_group_3	ID	3

Alarm_group_4

General			
Name	Alarm_group_4	ID	4

Alarm_group_5

General			
Name	Alarm_group_5	ID	5

Alarm_group_6

General			
Name	Alarm_group_6	ID	6

Alarm_group_7

General			
Name	Alarm_group_7	ID	7

Alarm_group_8

General			
Name	Alarm_group_8	ID	8

Alarm_group_9

General			
Name	Alarm_group_9	ID	9

Project2 / HMI_1 [KTP400 Basic PN] / HMI alarms

Alarm classes

Acknowledgement

General					
Name	Acknowledgement	Display name	A	ID	33
Common alarm class	Acknowledgement	Alarm log	<No log>		
Acknowledgment					
State machine	Alarm with single-mode acknowledgment				
State texts					
Text for "Incoming"	I	Text for "Outgoing"	O	Text for "Acknowledged"	A
Colors					
Background "Incoming/Acknowledged"	255, 255, 255	Background "Incoming"	255, 0, 0	Background "Incoming/Outgoing/Acknowledged"	255, 255, 255
Background "Incoming/Outgoing"	255, 0, 0				

Errors

General					
Name	Errors	Display name	!	ID	1
Common alarm class	<No alarm class>	Alarm log	<No log>		
Acknowledgment					
State machine	Alarm with single-mode acknowledgment				
State texts					
Text for "Incoming"	I	Text for "Outgoing"	O	Text for "Acknowledged"	A
Colors					
Background "Incoming/Acknowledged"	255, 255, 255	Background "Incoming"	255, 0, 0	Background "Incoming/Outgoing/Acknowledged"	255, 255, 255
Background "Incoming/Outgoing"	255, 0, 0				

No Acknowledgement

General					
Name	No Acknowledgement	Display name	NA	ID	34
Common alarm class	No Acknowledgement	Alarm log	<No log>		
Acknowledgment					
State machine	Alarm without acknowledgment				
State texts					
Text for "Incoming"	I	Text for "Outgoing"	O	Text for "Acknowledged"	A
Colors					
Background "Incoming/Acknowledged"	255, 255, 255	Background "Incoming"	255, 0, 0	Background "Incoming/Outgoing/Acknowledged"	255, 255, 255
Background "Incoming/Outgoing"	255, 0, 0				

System

General					
Name	System	Display name	$	ID	3
Common alarm class	<No alarm class>	Alarm log	<No log>		
Acknowledgment					
State machine	Alarm without acknowledgment				
State texts					
Text for "Incoming"	I	Text for "Outgoing"	O	Text for "Acknowledged"	A
Colors					
Background "Incoming/Acknowledged"	255, 255, 255	Background "Incoming"	255, 255, 255	Background "Incoming/Outgoing/Acknowledged"	255, 255, 255
Background "Incoming/Outgoing"	255, 255, 255				

Warnings

General					
Name	Warnings	Display name		ID	2
Common alarm class	<No alarm class>	Alarm log	<No log>		
Acknowledgment					
State machine	Alarm without acknowledgment				
State texts					
Text for "Incoming"	I	Text for "Outgoing"	O	Text for "Acknowledged"	A
Colors					
Background "Incoming/Acknowledged"	255, 255, 255	Background "Incoming"	255, 255, 255	Background "Incoming/Outgoing/Acknowledged"	255, 255, 255

Totally Integrated Automation Portal		
Background "Incoming/Outgoing"	255, 255, 255	

Background "Incoming/Outgoing" 255, 255, 255

Project2 / HMI_1 [KTP400 Basic PN] / HMI alarms

System events

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN]

Recipes

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / Historical data

Datalogs

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / Historical data

AlarmLogs

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN]

Scheduled tasks

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / Text and graphic lists

Text lists

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / Text and graphic lists

Graphic lists

This folder is empty.

Project2 / HMI_1 [KTP400 Basic PN] / User administration

User

Administrator

General			
Name	Administrator	Number	1
Automatic logoff			
Automatic logoff	Checked	Logoff time	5
Comment			
Comment	The user 'Administrator' is assigned to the 'Administrator' group.		
Groups			
Groups	Administrator group;		

Project2 / HMI_1 [KTP400 Basic PN] / User administration

Groups

Administrator group

General					
Name	Administrator group	**Display name**	Administrator group	**Number**	1
Password aging	Unchecked				
Comment					
Comment	The 'Administrator' group is initially granted all rights.				
Authorizations					
Authorizations	User administration; Monitor; Operate;				

Users

General					
Name	Users	**Display name**	Users	**Number**	2
Password aging	Unchecked				
Comment					
Comment	The 'Users' group is initially granted 'Operating' rights.				
Authorizations					
Authorizations	Operate;				

Project2 / HMI_1 [KTP400 Basic PN] / User administration

Authorizations

Monitor

General					
Name	Monitor	Authorization	Monitor	Authorization number	2
Comment					
Comment	'Monitor' authorization.				

Operate

General					
Name	Operate	Authorization	Operate	Authorization number	3
Comment					
Comment	'Operate' authorization.				

User administration

General					
Name	User administration	Authorization	User administration	Authorization number	1
Comment					
Comment	Authorization 'User administration' for managing users in the user view inrRuntime.				

Project2 / Common data

Alarm classes

Alarm classes		
Name	**Display name**	**Acknowledgment**
Acknowledgement	A	True
No Acknowledgement	NA	False

Project2 / Common data

Text lists

SYSTEM_AlarmServices_PriorityList

Selection	Decimal		ID	0
Comment				

SYSTEM_AlarmServices_PriorityList		
Range from	**Range to**	**Entry**
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16

SYSTEM_AlarmServices_DisplayClassList

Selection	Decimal		ID	0
Comment				

SYSTEM_AlarmServices_DisplayClassList		
Range from	**Range to**	**Entry**
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16

SYSTEM_AlarmServices_AcknowledgementGroupList

Selection	Decimal		ID	0
Comment				

SYSTEM_AlarmServices_AcknowledgementGroupList		
Range from	**Range to**	**Entry**
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16

SYSTEM_AlarmServices_ProducerList

Selection	Decimal		ID	0
Comment				

SYSTEM_AlarmServices_ProducerList		
Range from	**Range to**	**Entry**
0	0	User program
1	1	Report system errors
2	2	User program
3	3	User program
4	4	System diagnostics
5	5	Motion control
6	6	Security

Range from	Range to	Entry
7	7	SINUMERIK

SYSTEM_AlarmServices_TextNameList

Selection	Decimal	ID	0
Comment			

SYSTEM_AlarmServices_TextNameList

Range from	Range to	Entry
0	0	Info text
1	1	Alarm text
2	2	Additional text 1
3	3	Additional text 2
4	4	Additional text 3
5	5	Additional text 4
6	6	Additional text 5
7	7	Additional text 6
8	8	Additional text 7
9	9	Additional text 8
10	10	Additional text 9

SYSTEM_AlarmServices_TextNameList

Selection		ID	
Comment			

SYSTEM_AlarmServices_TextNameList

Range from	Range to	Entry
0	0	
1	1	

Project2 / Common data

Logs

This folder is empty.

Project2 / Common data

Styles

This folder is empty.

Project2 / Languages & resources

Project languages

Languages
Reference language
English (United States)
Editing language
English (United States)
Other project languages
Empty

Project2 / Languages & resources / Project texts

Project texts

Project texts		
English (United States)	**Category**	**Reference**
	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\No Acknowledgement\\AlarmClassData_IDisplayNaming_DisplayName
	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Acknowledgement\\AlarmClassData_IDisplayNaming_DisplayName
	Other text category	Project2\Comment
	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Warnings\alarmclass name not set_1\AlarmClassData_IDisplayNaming_DisplayName
!	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Errors\alarmclass name not set\AlarmClassData_IDisplayNaming_DisplayName
!!	Alarm text	alarmclass name not set_4\AlarmClassData_IDisplayNaming_DisplayName
"Main Program Sweep (Cycle)"	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\Program blocks\Main [OB1]\Comment
$	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\System\alarmclass name not set_2\AlarmClassData_IDisplayNaming_DisplayName
0	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\0\Entry
0	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\0\Entry
0	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\0\Entry
0	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_2\Text OFF
0	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_1\Text OFF
1	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\1\Entry
1	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_1\Text ON
1	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_2\Text ON
1	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\1\Entry
1	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\1\Entry
10	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\10\Entry
10	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\10\Entry
10	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\10\Entry
11	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\11\Entry
11	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\11\Entry
11	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\11\Entry
12	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\12\Entry
12	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\12\Entry
12	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\12\Entry
13	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\13\Entry
13	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\13\Entry
13	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\13\Entry
14	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\14\Entry
14	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\14\Entry
14	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\14\Entry
15	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\15\Entry
15	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\15\Entry
15	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\15\Entry
16	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\16\Entry
16	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\16\Entry
16	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\16\Entry
2	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\2\Entry
2	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\2\Entry
2	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\2\Entry
3	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\3\Entry
3	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\3\Entry
3	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\3\Entry
4	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\4\Entry
4	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\4\Entry
4	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\4\Entry
5	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\5\Entry
5	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\5\Entry
5	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\5\Entry
6	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\6\Entry
6	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\6\Entry
6	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\6\Entry
7	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\7\Entry
7	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\7\Entry
7	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\7\Entry
8	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\8\Entry
8	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\8\Entry
8	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\8\Entry
9	Text List Text Category	Project2\SYSTEM_AlarmServices_DisplayClassList\9\Entry
9	Text List Text Category	Project2\SYSTEM_AlarmServices_PriorityList\9\Entry
9	Text List Text Category	Project2\SYSTEM_AlarmServices_AcknowledgementGroupList\9\Entry
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Errors\Text for "Acknowledged"
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Safety warnings\Text for "Acknowledged"
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\No Acknowledgement\Text for "Acknowledged"
A	Alarm class text	Project2\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Acknowledgement\Text for "Acknowledged"
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Diagnosis events\Text for "Acknowledged"
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Warnings\Text for "Acknowledged"
A	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\System\Text for "Acknowledged"
Additional text 1	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 1\Entry
Additional text 2	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 2\Entry
Additional text 3	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 3\Entry
Additional text 4	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 4\Entry

English (United States)	Category	Reference
Additional text 5	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 5\Entry
Additional text 6	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 6\Entry
Additional text 7	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 7\Entry
Additional text 8	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 8\Entry
Additional text 9	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Additional text 9\Entry
Administrator group	HMI runtime	Project2\HMI_1 [KTP400 Basic PN]\User administration\Administrator group\Display name
Alarm text	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Alarm text\Entry
Authorization 'User administration' for managing users in the user view inrRuntime.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\User administration\Comment
configuration data set	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CompactConfig\Comment
controling parameter set	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CompactControlParams\Comment
CPU error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_ERR_MSG\Alarm text
CPU info: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_INFO_MSG\Alarm text
CPU internal: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_INTERN_MSG\Alarm text
CPU maintenance demanded: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_MD_MSG\Alarm text
CPU maintenance required: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_MR_MSG\Alarm text
CPU mode message: @1W%t#7W@ @5W%t#7W@	System alarm text	4\SDIAG_ALCAT_CPU_OST_MSG\Alarm text
data for controling part	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CompactControl\Comment
data for estimation of deviance	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_StandardDeviation\Comment
data for scaling	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_Scaling\Comment
data set for cycle time estimation	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CycleTime\Comment
data set for self tuning	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CompactSelfTune\Comment
data set for start up tuning	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_Compact_SUT\Comment
data set for tuning in run	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_Compact_TIR\Comment
dataset of parameters for gradient estimation	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_GradientParams\Comment
Error: @1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_ESUB_ERR_MSG\Alarm text
Error: @1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@, @8W%t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_ECH_ERR_MSG\Alarm text
Error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_MODUL_MSG\Alarm text
Error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_RACK_MSG\Alarm text
Error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_DEVICE_MSG\Alarm text
Error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_IOSYSTEM_MSG\Alarm text
Error: @1W%t#7W@ @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_SUBMODUL_MSG\Alarm text
Error: @1W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_SUB_ERR_MSG\Alarm text
Error: @1W%t#7W@ HW_ID= @6W%5u@, @8W%t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_CH_ERR_MSG\Alarm text
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Errors\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Acknowledgement\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Safety warnings\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Diagnosis events\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Warnings\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\System\Text for "Incoming"
I	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\No Acknowledgement\Text for "Incoming"
Info text	Text List Text Category	Project2\SYSTEM_AlarmServices_TextNameList\Info text\Entry
Info: @1W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CONFIG_INFO\Alarm text
Info: @1W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CONFIG_REPORT\Alarm text
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\No Acknowledgement\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Acknowledgement\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Errors\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\System\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Warnings\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Safety warnings\Text for "Incoming/Outgoing"
IO	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Diagnosis events\Text for "Incoming/Outgoing"
Kulka poza zakresem	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_2\Text
Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_ESUB_MD_MSG\Alarm text
Maintenance demanded: @1W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_SUB_MD_MSG\Alarm text
Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@, @8W%t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_ECH_MD_MSG\Alarm text
Maintenance demanded:@1W%t#7W@ HW_ID= @6W%5u@, @8W%t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_CH_MD_MSG\Alarm text
Maintenance required: @1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_ESUB_MR_MSG\Alarm text
Maintenance required: @1W%t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_SUB_MR_MSG\Alarm text

English (United States)	Category	Reference
Maintenance required:@1W%t#7W@ - @5W%t#7W@ HW_ID= @6W%5u@, @8W %t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_ECH_MR_MSG\Alarm text
Maintenance required:@1W%t#7W@ HW_ID= @6W%5u@, @8W%t#7W@ channel number @2W%5u@	System alarm text	4\SDIAG_ALCAT_CH_MR_MSG\Alarm text
Monitor	HMI runtime	Project2\HMI_1 [KTP400 Basic PN]\User administration\Monitor\Name
'Monitor' authorization.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\Monitor\Comment
Motion control	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\SMC\Entry
NA	Alarm class text	Project2\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Errors\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Diagnosis events\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\System\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Warnings\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\No Acknowledgement\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Acknowledgement\Text for "Outgoing"
O	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\HMI alarms\Safety warnings\Text for "Outgoing"
Odległość kulki od czujnika	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_1\Text
Operate	HMI runtime	Project2\HMI_1 [KTP400 Basic PN]\User administration\Operate\Name
'Operate' authorization.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\Operate\Comment
Pomiar prędkości	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_3\Text
PWM ON	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_5\Text
QGR	Alarm text	Project2\HMI_1 [KTP400 Basic PN]\Runtime settings\HmiAlarmSettingsData\Acknowledgment group text
Report system errors	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Rse\Entry
retain data	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_CompactRetain\Comment
RPM	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_6\Text
S7	Alarm text	alarmclass name not set_3\AlarmClassData_IDisplayNaming_DisplayName
Security	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Security\Entry
SINUMERIK	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Sinumerik\Entry
Sterowanie ręczne	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_7\Text
structure for gradient estimation	Multilingual text category	Project2\PLC_1 [CPU 1212C AC/DC/Rly]\PLC data types\PID_GradientEstimation\Comment
Switch	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_2\Caption text
Switch	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Lever_Horizontal_1\Caption text
System diagnostics	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\SysDiag\Entry
Temporary CPU error: @1W%t#7W@ @5W %t#7W@ HW_ID= @6W%5u@	System alarm text	4\SDIAG_ALCAT_CPU_TMPERR_MSG\Alarm text
The 'Administrator' group is initially granted all rights.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\Administrator group\Comment
The user 'Administrator' is assigned to the 'Administrator' group.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\Administrator\Comment
The 'Users' group is initially granted 'Operating' rights.	HMI comment	Project2\HMI_1 [KTP400 Basic PN]\User administration\Users\Comment
User administration	HMI runtime	Project2\HMI_1 [KTP400 Basic PN]\User administration\User administration\Name
User program	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Simotion\Entry
User program	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Alarming\Entry
User program	Text List Text Category	Project2\SYSTEM_AlarmServices_ProducerList\Iecpl\Entry
Users	HMI runtime	Project2\HMI_1 [KTP400 Basic PN]\User administration\Users\Display name
Wartość zadana	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_8\Text
Wprowadź wartość PWM	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_4\Text
WZ sterowania ręcznego	HMI screen	Project2\HMI_1 [KTP400 Basic PN]\Screens\Screen_1\Text field_9\Text

Project2 / Languages & resources

Project graphics

Design_1_Slider_Frame_Vertical_Broad

Standard graphic	English (USA)
▶ *Dithering mode*	
Grids with error scatter	Grids with error scatter
▶ *Smoothing*	
Unchecked	Unchecked

Design_4_Slider_Frame_Vertical_Small

Standard graphic	English (USA)
▶ *Dithering mode*	
Grids with error scatter	Grids with error scatter
▶ *Smoothing*	
Unchecked	Unchecked

Down_Arrow

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

Home

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

Left_Arrow

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

Lever_Horizontal_1_Off_256c

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color

Standard graphic	English (USA)
▶ *Smoothing*	
Unchecked	Unchecked

Lever_Horizontal_1_On_256c

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

PilotLight_Round_R_Off_256c

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

PilotLight_Round_R_On_256c

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

Right_Arrow

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked

Up_Arrow

Standard graphic	English (USA)
▶ *Dithering mode*	
Same color	Same color
▶ *Smoothing*	
Unchecked	Unchecked