PLC controller can load and run small binary programs (PLC procedures). PLC procedure should be wrirtten by simplified C-like language, compiled and stored in PLC controller memory to be ready to go.

PLC Builder - tiny IDE (Integrated Development Environment) to create and modify PLC procedure source files, compile them to binary code and upload it as RomFS iso image disk to PLC controller memory.

To open PLC Builder goto

- Settings Tab Widget →
- Cfg →
 - \circ PLC Builder →
 - $\circ\,$ Select either Hardware PLC or Software PLC depends on what PLC you need

SVS PLC CFG E		CFG					1	1 I		er)
Preferences Profile Macros PLC Builder	Axes/Moto		Technology	Network	Camera	5 axes RTCP	Panel/Pendant	Hardware	Advanced	
Hardware PLC Hardware PLC: XML configs So	ftware PLC									
	۱ - ۲۰۰۰ -	ame: M03	Aliase	s:						10101000
M00	0311410	/Turn on Spindle clo							<u> </u>	
M01	Build	//set Spindle speed t	hrough DAC o	hannel:	-				101	191000
M02 M03		// //The following varial							010	
M04	~	OUTPUT_CCW_SPINI								\sim
M05 M07		OUTPUT_SPINDLE								
M07 M08		/****************		*****	***				16 20 01	#101000 #100001
M09	6	#include pins.h							01	
M140 M141		#include vars.h								
M142										
M144 M145		main() {								
M145 M146		timer=0;								
M162		proc=plc_proc_spine	dle;							
M166 M167		val=eparam;								
M177		if (val>0xfff) {val=0xfff;};								
M180	_	if (val<0) {val=0;};								
M181 M182		dac01=val;								
M183										
M397 M398		portclr(OUTPUT_CC) portset(OUTPUT_SP								
M399	20									
M62 gvarset(7370,1);//Spindle State gvarset(7371,eparam);//Spindle Speed Mirror register										
PLC Includes	L	gvarset(7571,epara		эрееа мил	or registe				•	
func.h		M03: OK								
pins.h vars.h	\checkmark	++ Name Lii	++ ne reg							
Valsh		+++	++							
		proc 0 timer 0								
		vexit 0								
		message	0 3 0 4							
		pwm01 pwm02	0 4 0							
		pwm03	0 6							
		pwm04 dac01 0	0 7) 8							
			9						Ŧ	

PLC Builder IDE Widget

SYS CFG S SUPPORT S CFG										
	Axes/Motors Inputs/Sensors Technology Network Camera 5 axes RTCP Panel/Pendant Hardware Advance	d								
5	Software PLC PLC Configuration									
	Name: M03 V Aliases:	10101000								
PLC Sources EST M00 M01 M02 M03 M04 M05 M05 M07 M08 M09 M140 M141 M142 M144 M145 M146 M162 M166 M167 M177 M177 M180 M181 M182 M182 M182 M182 M182 M182 M182	Pame: M03 Aliases: // Turn on Spindle clockwise /// Aliases: /// The following variables Should be defined outside /// Aliases: // The following variables Should be defined outside // Aliases: // The following variables Should be defined outside // Aliases: // The following variables Should be defined outside // Aliases: // The following variables Should be defined outside // Aliases: // Ourpur_SPINDLE // Ourpur_SPINDLE // Ourpur_SpinDLE // Aliases: // The following variables Should be defined outside // Aliases: // The following variables Should be defined outside // Aliases: // Ourpur_SpiNDLE // Aliases: // The following variables Should be defined outside // Aliases: // The following variables Should be defined outside // Aliases: // The following variable Size // Aliases: // The following variable Size // Aliases: // Aliases: // Aliase	10								
2	5 wm01 0 4 ymm01 0 4 ymm02 0 5 ymm03 0 6 ymm04 0 7 dac01 0 8 dac02 0 9									

PLC Builder Screen Components

- 1. PLC Sources File List of PLC procedures
- 2. PLC Includes File List of Include files, that can be used (included) by PLC procedures
- 3. PLC Source control buttons
 - 1. Compile Selected Source file, detailed compilation Info will be available in **Compilator output** window
 - 2. Save Save Selected Source file on a disk
 - 3. Add Source Pressing this button will show Add Source dialog. Enter Procedure name (without extension) and press **OK** to add new PLC procedure Source file
 - 4. Remove Pressing this button will remove Selected source file (need to confirm delete in Delete Message Box)
- 4. Load PLC procedure sources from Templates
- 5. PLC Includes control buttons
 - 1. Save Save Selected Include file on a disk
 - 2. Add Source Pressing this button will show Add Include message box. Enter Include name (without extension) and press **OK** to add new PLC procedure Source file
 - 3. Remove Pressing this button will remove Selected include file (need to confirm delete in Delete Message Box)
- 6. Name Display of Current PLC Source
- 7. Aliases List of Aliases for Current PLC source
- 8. Current PLC/Include source text
- 9. PLC Compiler messages
- 10. Build Buttons:
 - 1. Build All
 - 2. Save All
 - 3. **Send**

PLC Procedure Aliases

Permanent link: http://docs.pv-automation.com/plc/plc_builder?rev=1505262295

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