

arteco

motion control technologies

SU310-PLC



SU310 is the high I/O feature PLC from Artec srl.

It provides 40 digital inputs and 40 digital outputs, one analog input, one analog output and one PWM output . Status leds are provided for each digital input and output channel.

The default RS232/RS485 serial port supports Modbus RTU for connection to HMI and Scada for advanced process controlling and monitoring purposes. CANOpen connectivity allows connection to Artec CANOpen expansion boards to increase I/O and controlled axes number.

Optional Profibus interface allows a direct connection from field I/O signals to the PLC variables. A parallel dedicated expansion bus is also provided to connect SU310-PLC to another 64 I/O expansion . An optional modbus gateway can be connected to the serial interface allowing remote control/programming/debugging via the Internet .

SU310-PLC is made up of two boards, the lower one is the cpu board and the upper one is the connector board. Should customers require his/her own board connector layout and/or connector style the upper board can be rapidly redesigned for a quick and cheap board customization .

Su310 plc supports all of the five IEC 61131-3 standard programming languages, thus allowing quick application development.

FEATURES	DETAILS	NOTES
Supply		
Voltage	24 Vdc \pm 20% from SELV source	Resettable fuse protected, its value is software readable
Power consumption	1,0 A	The value does not include digital output current
Backup battery	Inorganic Lithium – CR2032 3V	Easily available and user- replaceable
Supply voltage monitoring	External 24 Vcc, internal 5 Vcc, 12 Vcc, -12 Vcc Backuo battery	Green leds on for correct voltage signalling Red led for backup battery fault, software readable
CPU		
Microprocessor	RISC 20MHz, 16 bit	
Available memory	RAM 600 Kbytes	With backup battery, protected at power -down
Status monitoring	Watchdog PLC active	Green blinking led for plc up Green blinking led for plc up and running
Interfaces		
Serial port	RS232/RS485	
Fieldbus	ProfiBus slave DP	Available with optional board
	CANOpen 2.0 b	Master
	Modbus	RTU slave and ISaGRAF [®] , switchable
Connection to HMI	With serial port, modbus protocol	Fully compatible with several industrial HMIs
Modem and modbus gateway	Connection with optional serial interface	Remote support with phone line or the internet
I/O		
Digital on-board inputs	40 inputs 0-24 Vdc PNP	
Digital on-board outputs	40 outputs 0-24 Vdc PNP 0,2 A each, max 1 A every 4 active outputs	Short circuit, overcurrent, overvoltage and overtemperature protected .
Analog in	1 input \pm 10Volt	10 bit resolution
Analog Output	1 output available, differential \pm 10Volt range	12 bit resolution
PWM output	10 bit resolution	Software function block is provided
Development tools		
Software development	ISaGRAF [®]	
Available languages	SFC, FDB, LD, ST, IL, FC	As per IEC 61131-3 standard
Additional features	Function blocks analog output driving and reading	Arteco proprietary extension to IEC 61131-3
	Advanced function blocks for variable managing	Arteco proprietary extension to IEC 61131-3
Variable types	Boolean, integer, message, timer	Can be set to retain their value at power-down
Others		
Field connections	Detachable connectors	
Housing	UI 94 board holder, steel cover	Dimensions 312-59-129 (L x H x W)
Mounting	DIN rail	
Compliance	CE IEC61131-2 , UL e257009	

Arteco srl reserves the right to change all features without prior notice Rel. 20120608

