

# arteco

motion control technologies

## SU-PLC

Programming Language IEC61131-3



SU-PLC is the new low cost PLC based on the long time experience of Arteco Motion Tech in Axis Controllers development.

The same ISaGRAF tool used for Axis Controller programs can be used to develop PLC programs.

The advantage for Arteco customers is that they can use ONLY one programming tool for all Arteco PLCs and Axis Controllers making it possible to save money and time. In fact all programs are portable to all Arteco PLCs or Arteco Axis Controllers.

The standard configuration is 16 digital input, 16 digital output expandables by Canbus and SPI port.

| CHARACTERISTICS                  | DESCRIPTION  | NOTES   |
|----------------------------------|--|---|
| <b>Power supply requirements</b> |  |   |
| Power supply voltage             | 24 Vdc $\pm$ 20% - 0,5 A   | Protected by electronic fuse  |
| Buffer battery                   | Inorganic Lithium – AA-3,6Volts  |   |
| <b>CPU</b>                       |  |   |
| Microprocessor                   | Infineon , 20 MHz, 16 bit  |   |
| Working memory                   | Backup battery, write protected against power down and reset   | Retentive Boolean, Integer and text variables   |
| Monitoring functions             | Watch Dog<br>PLC active  | LED: slow blinking when PLC is active, fast blinking on power supply error (in this case the PLC-ON is turned off)<br>LED on when PLC is active |
| <b>INTERFACES</b>                |  |   |
| Asynchronous basic serial        | 1 RS232/RS485 serial port  | Both available, selectable by jumper  |
| Fieldbus                         | CANOpen (optional)<br>Modbus slave   | For I/O expansions connecting Standard RTU Modbus   |
| Connections to HMI               | By RS232 / RS485 Modbus RTU  | Full compliance with many third part HMI equipments   |
| SPI Interface                    | 1 SPI port: differential configuration   | As an alternative to RS422  |
| <b>INPUT AND OUTPUT</b>          |  |   |
| On board user input              | 16 digital input 24 Vcc PNP  |   |
| On board user output             | 16 digital output 24 Vcc PNP<br>1,8A each output, Max 4,4A for each group of 4 output  | Protected against short circuit, overcurrent, overtemperature, overvoltage and reverse voltage connection.                                      |
| On board analog user input       | 1 analog input 0-10Volt  | Resolution of 10 bit, overvoltage protected   |
| <b>AXIS MANAGEMENT</b>           |  |   |
| Encoder counting                 | 1 encoder counter 200 KHz, 32 bit  | Internally Multiplied x 4   |
| Encoder interface                | 24V Push-Pull  |   |
| Encoder reading                  | Motion Control Function available  | Position and speed reading thanks to "ReadPos" function   |
| <b>DEVELOPMENT TOOLS</b>         |  |   |
| Development environment          | ISaGRAF® Tool programming software   | Compliance to standard IEC 61131-3  |
| Available programming languages  | SFC, FDB, LD, ST, IL, FC   | All usable in the same project  |
| Advanced features                | Function symbols to read the position.<br>Function symbols to manage the variables,<br>Function symbols to manage the personalization of the serial port | In adding to the standard IEC 61131-3 programming languages   |
| Case                             | Plastic case, Standard DIN   | Dimensions: 160mm x 95mm x h 60mm   |
| Mounting                         | For DIN guide  |   |
| Certifications                   | CE IEC61131-2 / IEC61131-3   | Certified by the manufacturer   |

ARTECO MOTION TECH reserves the right to change the physical hardware and or software specifications without notice

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