



GTP 80



Operator panel with integrated PLC

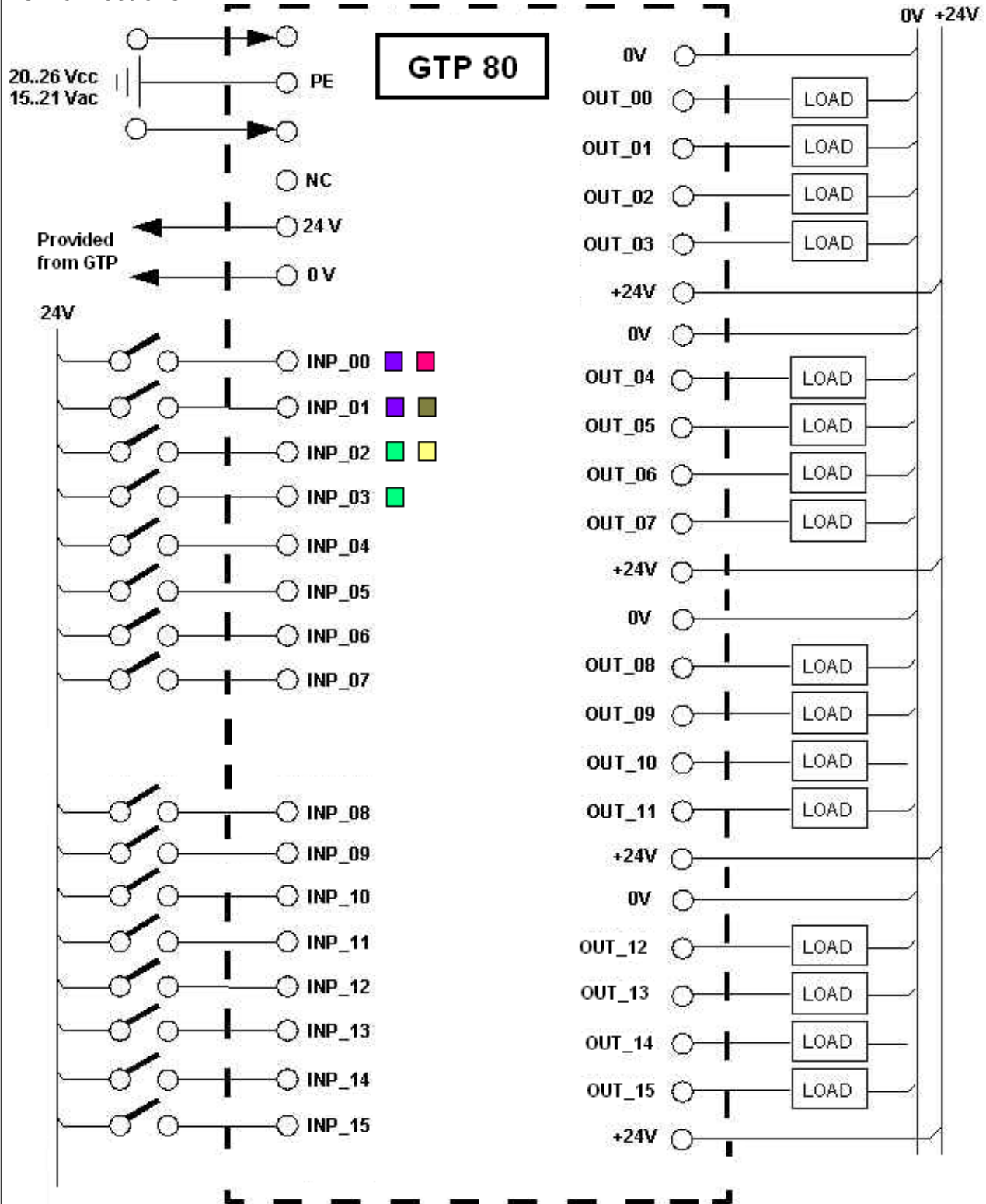
- Graphic LCD 160 x 80
- CAN Open Master communication protocol
- Contact programming with Ladder language
- Master USB port and slave USB port

| ELECTRIC CHARACTERISTICS | |
|-----------------------------|---|
| Power supply voltage | Min 20Vcc ; Max 26 Vcc Min 15 Vac ; Max 21 Vac |
| Current Consumption | Under 500mA without loads |
| Microprocessor | Fujitsu MB91467 @ 4MHz |
| Program Memory | 1 MB |
| Pages Memory | 1 MB |
| E²PROM | 64 KB |
| Cycle Time | Programmable (minimum 1 msec.) |
| Digital Inputs | 16 digital inputs PNP at 24 Volts with programmable anti-noise filter (value 0..255) |
| Analog Inputs | 8 analogic inputs with 10 bit resolution [0...1023] for PT100 , termocouple , voltage or current . |



| ELECTRIC CHARACTERISTICS | |
|---------------------------------------|-----------------------------------|
| Digital Outputs | 16 PNP 24V at 500 mA |
| Analog Outputs | 2 analogic outputs +/- 10V |
| Current analog input Impedance | 250 Ω |
| Voltage analog input Impedance | 10 KΩ |

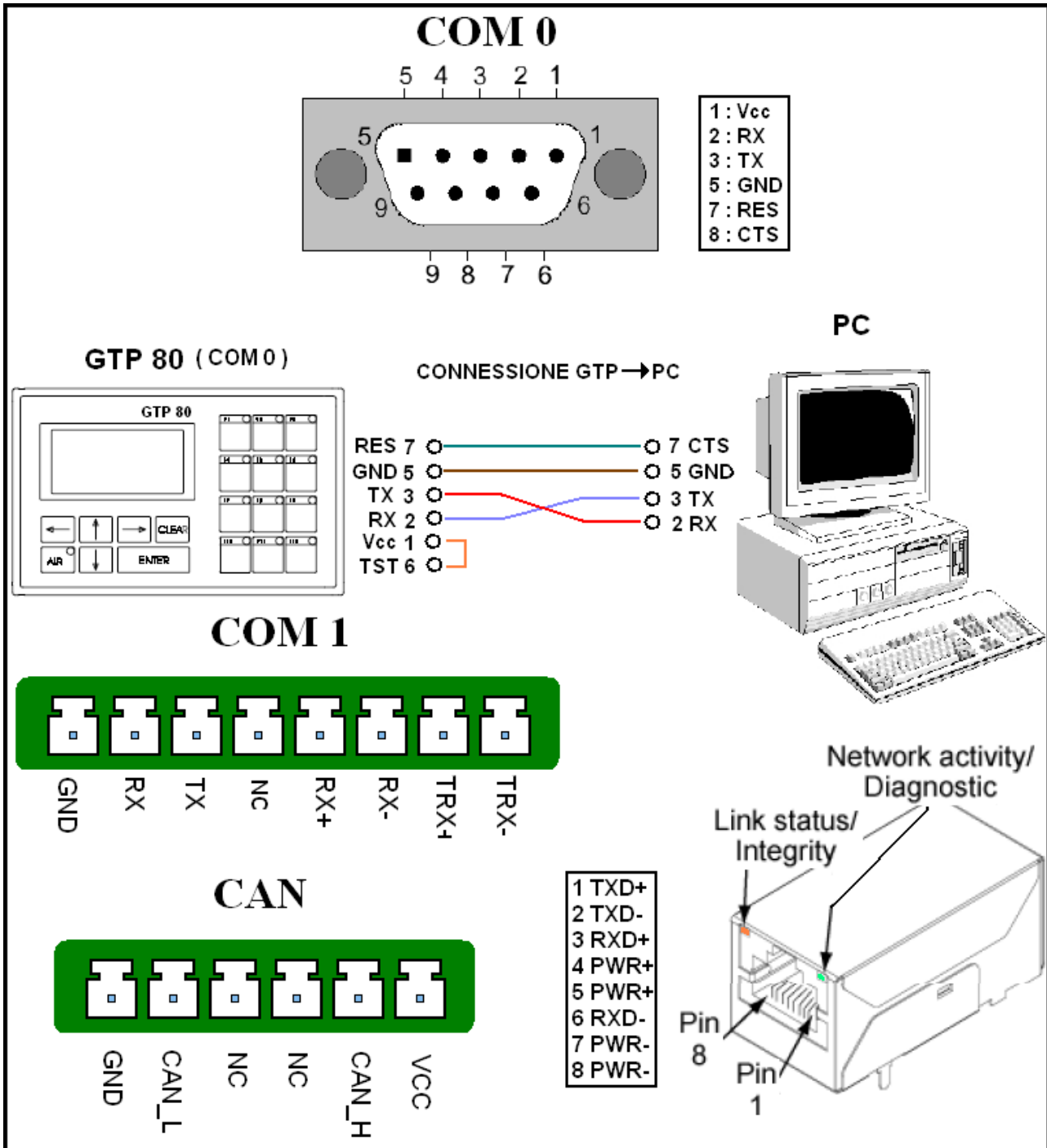
I/O Connections



- interrupt input
- Encoder bidirectional 0
- Encoder bidirectional 1
- Encoder monodirectional 0
- Encoder monodirectional 1

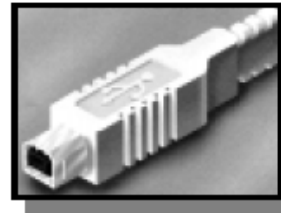


| ELECTRIC CHARACTERISTICS | |
|----------------------------|--|
| Plugged RAM | 96 words any 100 msec automatically copy into plugged RAM (for a term of 1 year) |
| RTC | Extern real time clock with plugged calendar and clock with rechargeable battery . (for a term of 1 year) |
| Communication Ports | <p>2 serial lines (COM 0 , COM 1) , 1 CAN port , 1 USB slave port , 1 USB master port , 1 Ethernet port .</p> <p><u>COM 0</u> : Available only in RS232 mode , in alternative to this can be used the USB salve port . This port might support many different communication protocols . It's used also for upload the application program or the operative system .</p> <p><u>COM 1</u> : Used in RS232 , RS485 o RS422 mode , might support many different communication protocols and it's normally used like interface with other devices (I/O expansions , termoregulators , inverters or for network connection) .</p> <p><u>CAN</u> : with CAN-OPEN protocol</p> <p><u>USB master</u> : only for USB keys reading .</p> <p><u>USB slave</u> : Used in alternative to COM1 , it use only the Kernel protocol . It's used also for upload the application program or the operative system .</p> <p><u>Ethernet</u> : only if requested .</p> |





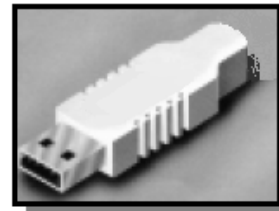
USB - slave : used in alternative to COM0 , it use Kernel protocol



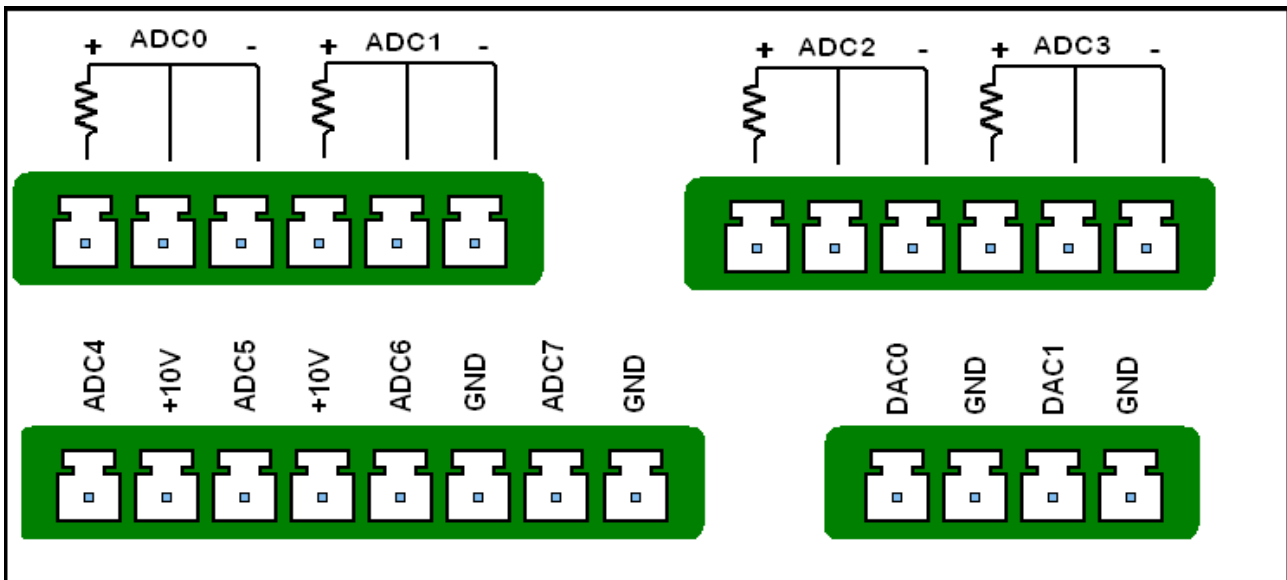
connector for USB - slave



USB - master : only for USB Flash disk connection

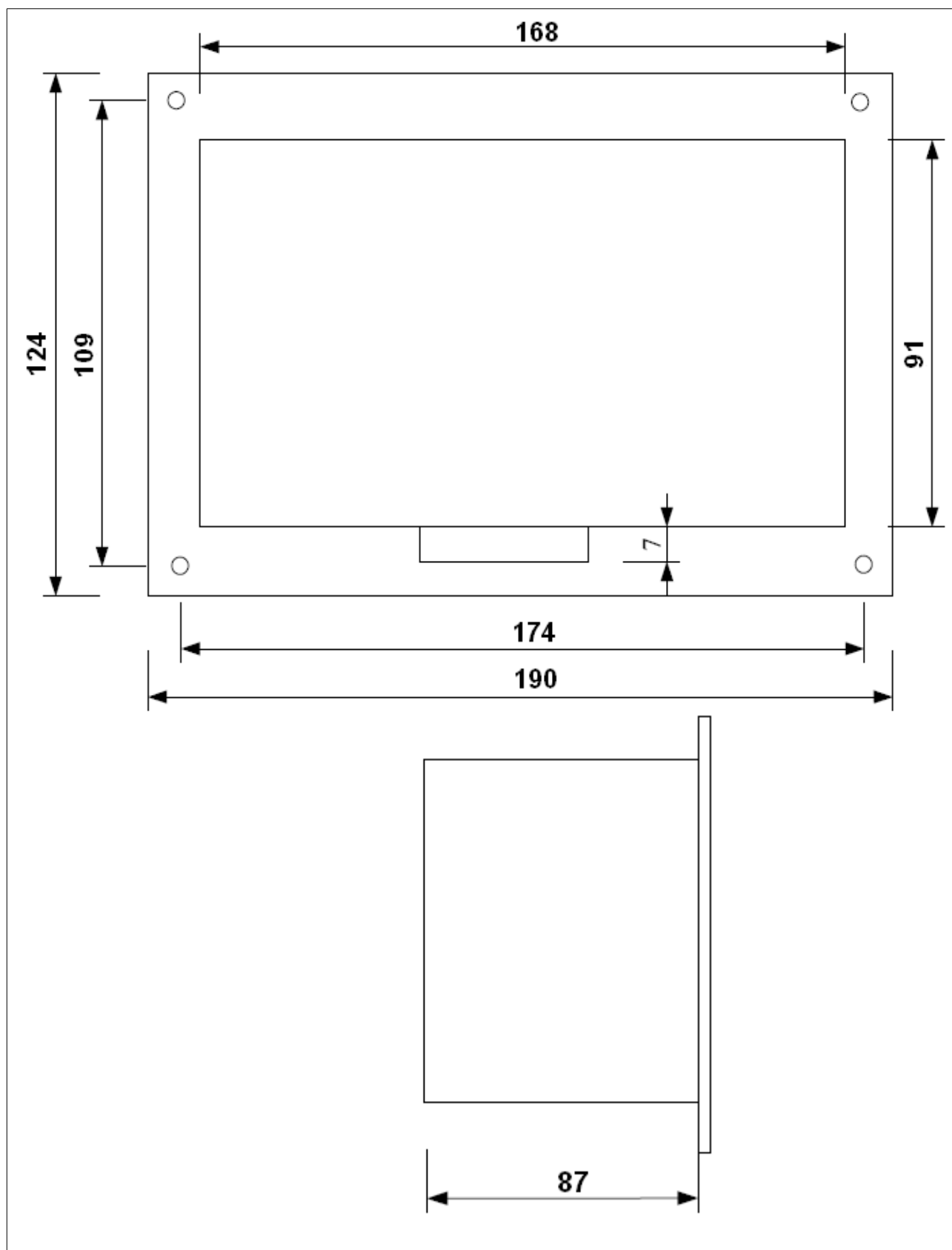


USB Flash disk connector for USB - master





| MECHANICS CHARACTERISTICS | |
|----------------------------------|---|
| Humidity Range | from 10 to 90% (non-condensing) |
| Temperature Range | from -10 °C to +70 °C |
| Operating Atmosphere | Without corrosive gas |
| Noise Immunity | According to rules in force |
| Fixing System | Four M4 pegs |
| Weight | 790 g |
| Keyboard | Membrane keyboard on anodized aluminium front part with 12 function buttons (from F 1 to F 12) and 7 dedicated buttons |
| Display | Monochromatic graphic display 156x80 (26 characters on 10 rows) backlight LED. 13 LEDS on function buttons . |
| Size | Front view 190x124 mm , Depth 87 mm |





| SOFTWARE CHARACTERISTICS | |
|--|---|
| Programming Languages | AWL / Ladder |
| Timers | 256 timers at 16 bit with 1/100 sec resolution. Timers are configurables like excitation delay or disexcitation delay. |
| Counters | 256 counters at 16 bit configurables like increase or decrease. |
| Data Memory | 12288 |
| Developed Functions | <ul style="list-style-type: none"> - Week programming - Recipes management - CAN Open protocol management - Encoders management - P.I.D. regulation |
| Memory area check in real time mode on data table (Debug) | ● |
| Ladder's subroutines Import/Export | ● |
| Contact and variable check in real time mode on ladder (Debug Online) | ● |