



DP 120

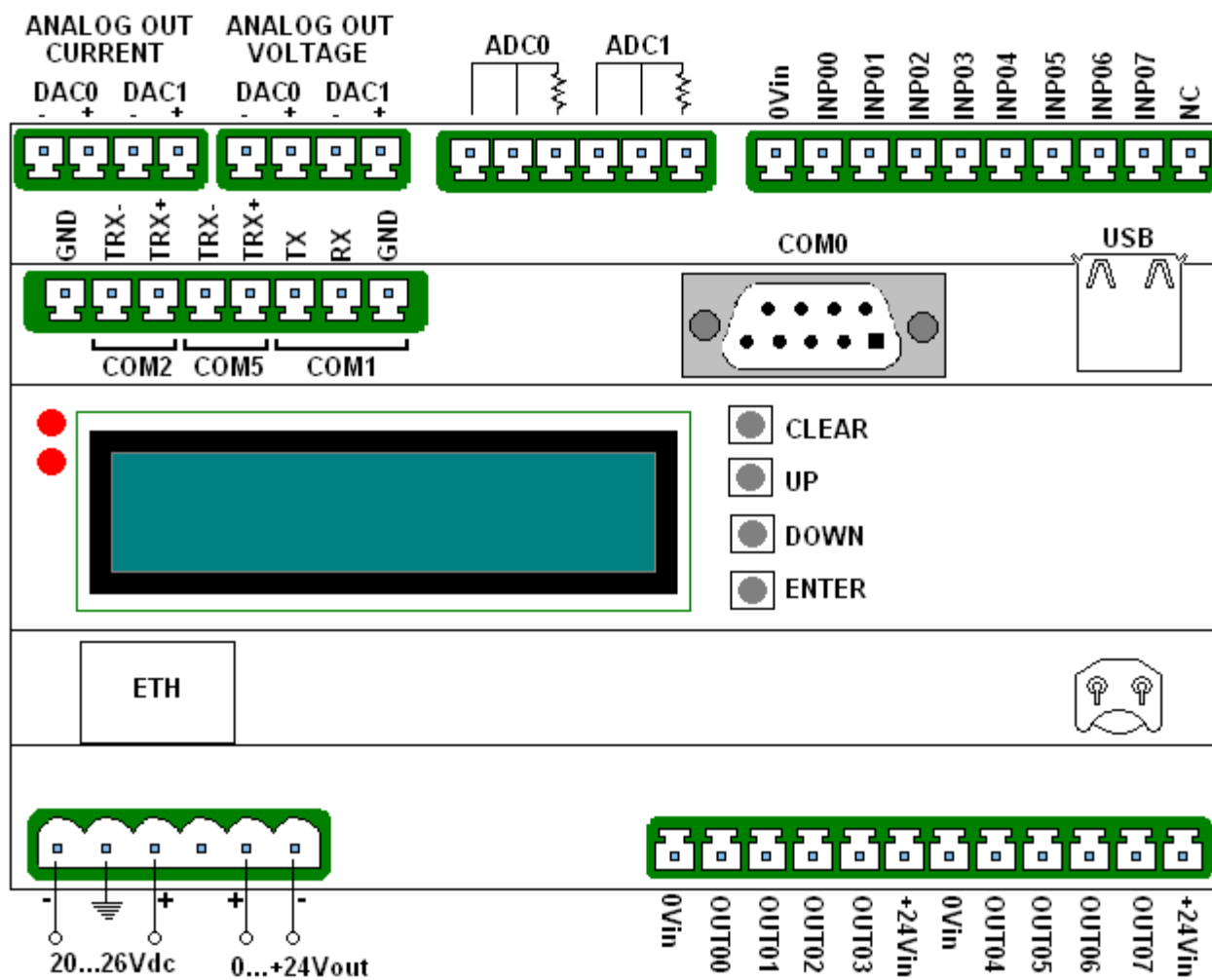


PLC with integrated operator panel

- Fixing system on din rail
- Master USB port
- Contact programming with Ladder language
- Four serial communication ports and an optional ethernet port

ELECTRIC CHARACTERISTICS	
Power supply voltage	Min 20Vdc ; Max 30 Vdc
Current Consumption	Under 150mA without loads
Microprocessor	ARM STM200
E ² PROM	24C512 da 512K
Cycle Time	Programmable (min 5 msec.)
Digital Inputs	8 digital inputs PNP 24Vdc with programmable anti-noise filter (value 1..16)

I/O Connections

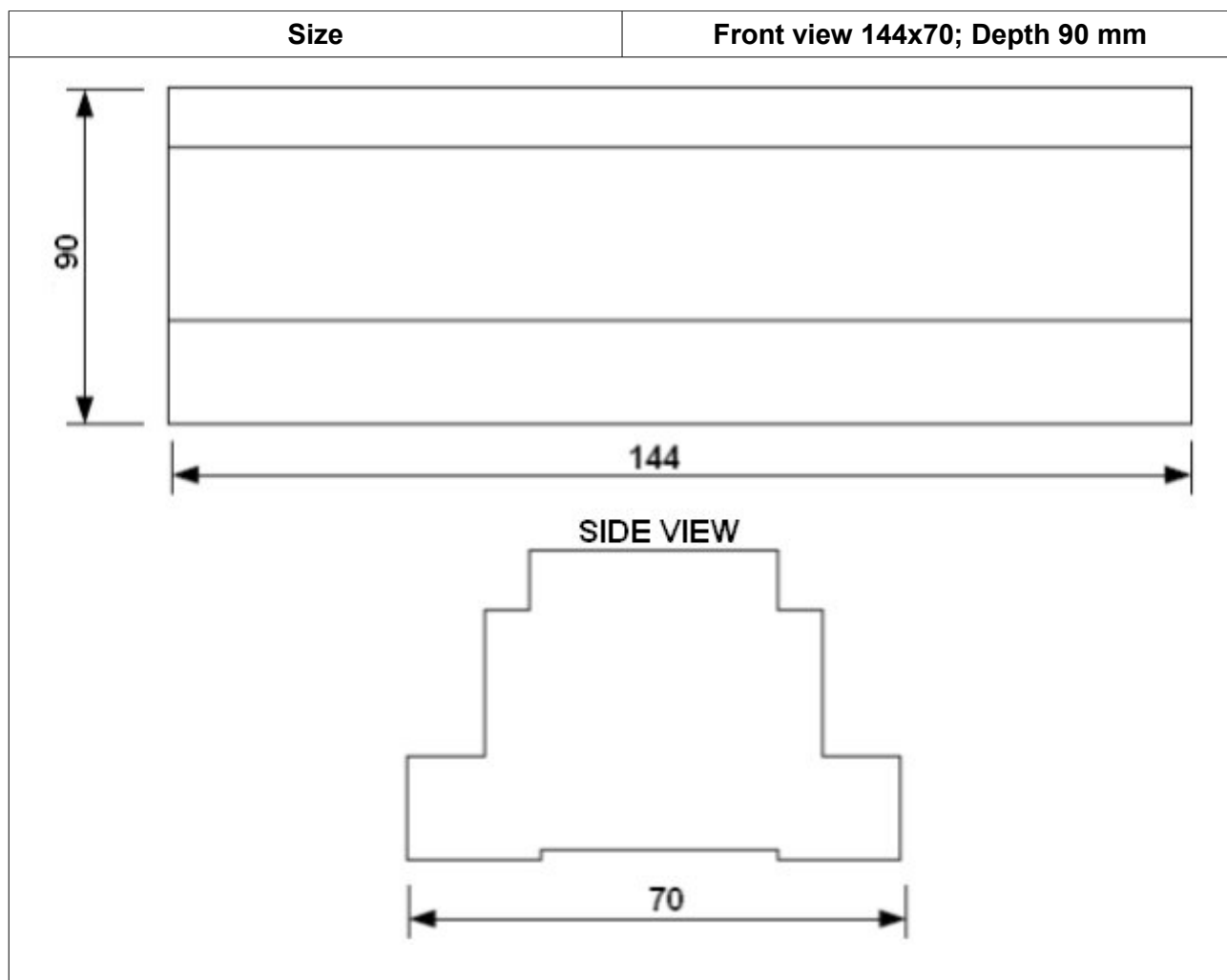


Analog Inputs	Two analog inputs with 12 bits resolution [0...4095] ; for PT100, PT1000, thermocouple (J or K) otherwise voltage (0...10V) or current (0..20mA).
Digital Outputs	8 static outputs 24Vdc 500mA
Analog Outputs	Two analog outputs 12bits [0...4095], both two in voltage (0...10V) and curent (0...20mA)
RTC	Internal Real time clock buffered by a replaceable battery



Serial Lines	<p>4 serial lines (COM0, COM1, COM2 and COM5) and optional ethernet port.</p> <p>COM 0 : It's in RS232 mode and can be used with many different standard communication protocols for connect other devices (I/O expansions , thermoregulators , inverters or network connection) besides it's used for upload applications or operative system .</p> <p>COM 1 : It's in RS232 mode and can be used with many different standard communication protocols for connect other devices (I/O expansions , thermoregulators , inverters or network connection)</p> <p>COM 2 : It's in RS485 mode and can be used with many different standard communication protocols for connect other devices (I/O expansions , thermoregulators , inverters or network connection)</p> <p>COM 5 : It's in RS485 mode and can be used with many different standard communication protocols for connect other devices (I/O expansions , thermoregulators , inverters or network connection)</p>
---------------------	---

MECHANICS CHARACTERISTICS	
Temperature Range	from -10 °C to +70 °C
Humidity Range	from 10 to 90% (non-condensing)
Operating Atmosphere	Without corrosive gas
Noise Immunity	According to rules in force
Fixing System	On din rail
Weight	
Keyboard	4 dedicated buttons
Display	Monochromatic graphic display 144x32 pixel



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.



Developed Functions	<ul style="list-style-type: none"> • Week Programming • Recipes 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)	•
Application program's real time simulator	•