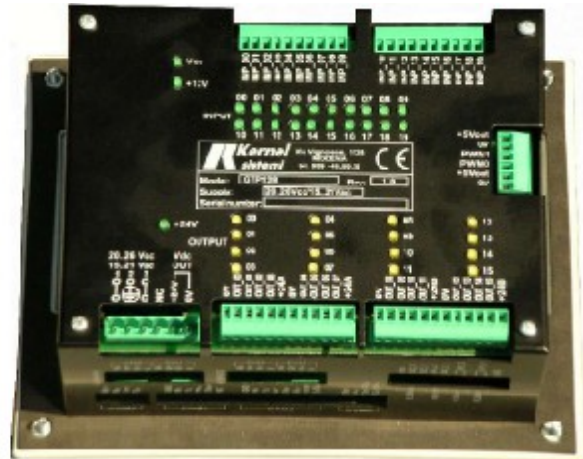




GTP 128



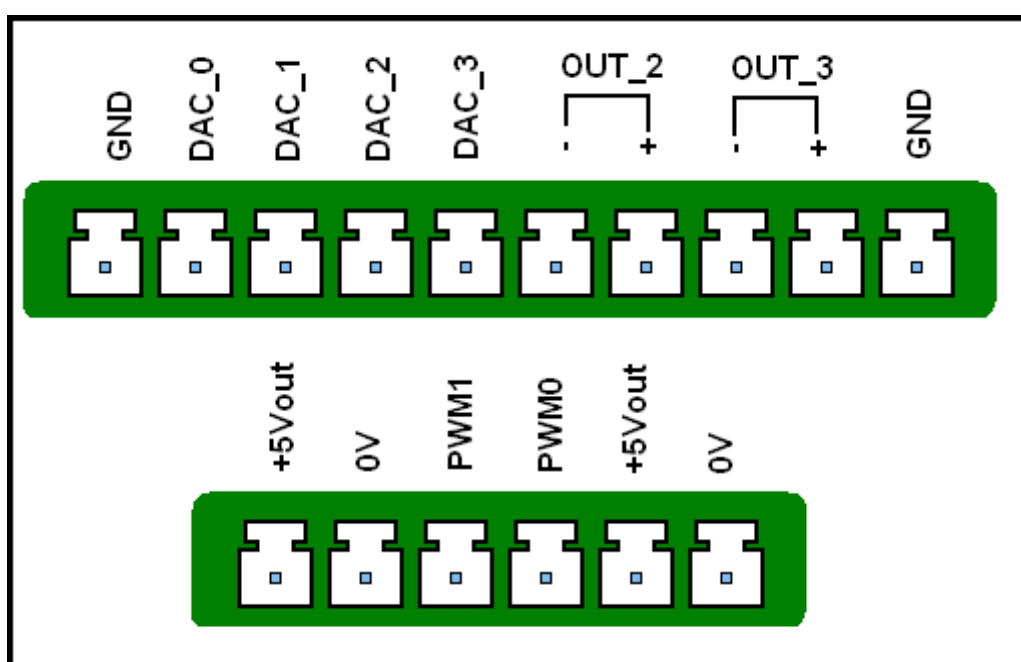
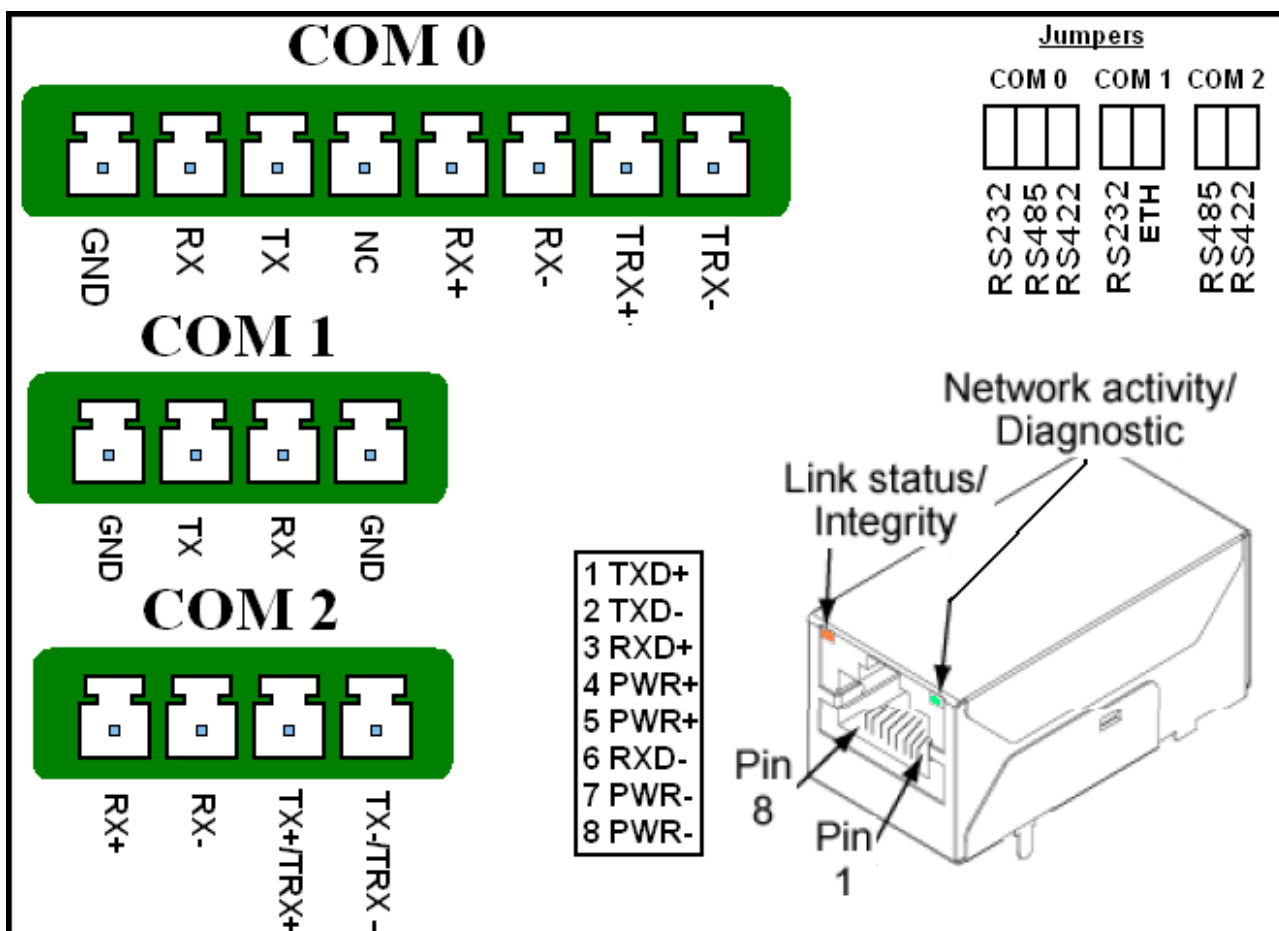
Operator panel with integrated PLC

- Graphic LCD 240x128
- High speed (2msec. standard cycle time)
- Contact programming with Ladder language
- Function for Recipe management , Encoders , Print etc ...

ELECTRIC CHARACTERISTICS	
Power supply voltage	Min 20Vcc ; Max 26 Vcc Min 15 Vac ; Max 21 Vac
Current Consumption	Under 200mA without loads
Microprocessor	Hitachi H8S/2145B @ 20MHz
Program Memory	64 KB
Pages Memory	1 MB
E ² PROM	64 KB
Cycle Time	Programmable (minimum 1 msec.)
Digital Inputs	20 digital inputs PNP at 24 Volts of which 4 fast input (5KHz for encoder reading) with programmable anti-noise filter (value 1...16)

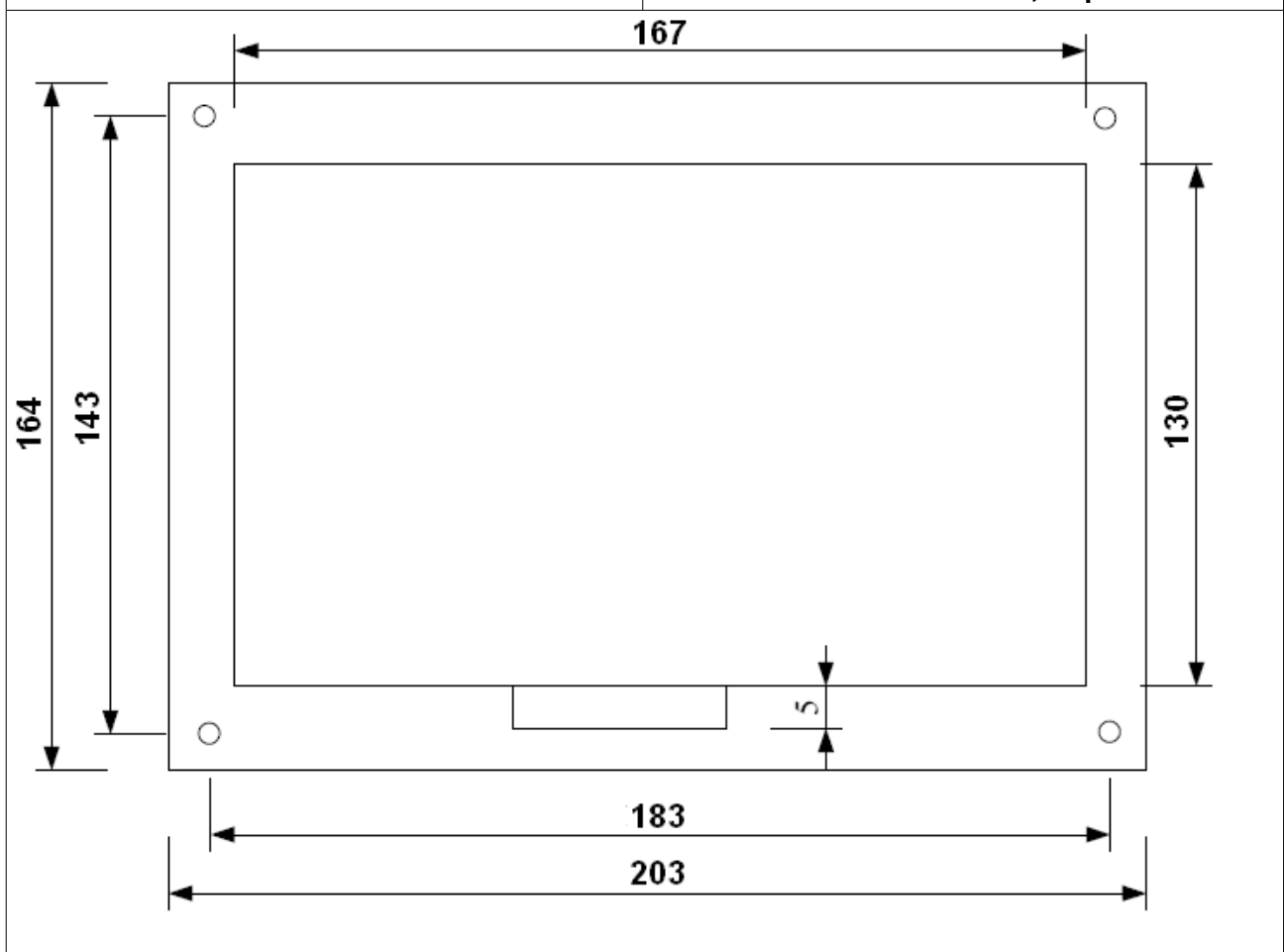


Analog Inputs	No analog inputs
Digital Outputs	16 PNP static outputs 24V and 500mA
Analog Outputs	2 analogic outputs +/- 10V 12 bit [0...4045] and 2 analogic outputs 0...+10V con risoluzione 8 bit [0...255]
Plugged RAM	79 words any 100 msec automatically copy into plugged RAM (for a term of 1 year)
RTC	Extern real time clock with plugged calendar and clock with rechargable battery . (for a term of 1 year)
Serial Lines	<p>3 serial lines (COM 0 , COM 1 , COM 2) with the possibility of replace COM 1 with Ethernet.</p> <p>COM 0 : It could be used in RS232 , RS485 or RS422 with many different standard communication protocols for connect other devices (I/O expansions , termoregulators , inverters or network connection) .</p> <p>COM 1 : It could be used in RS232 mode or like Ethernet port if it is on board and it's used like COM0 , besides for upload applications or operative system .</p> <p>COM 2 : it could be used in RS485 or RS422 with many different standard communication protocols for connect other devices (termoregulators, inverters or network connection) .</p>

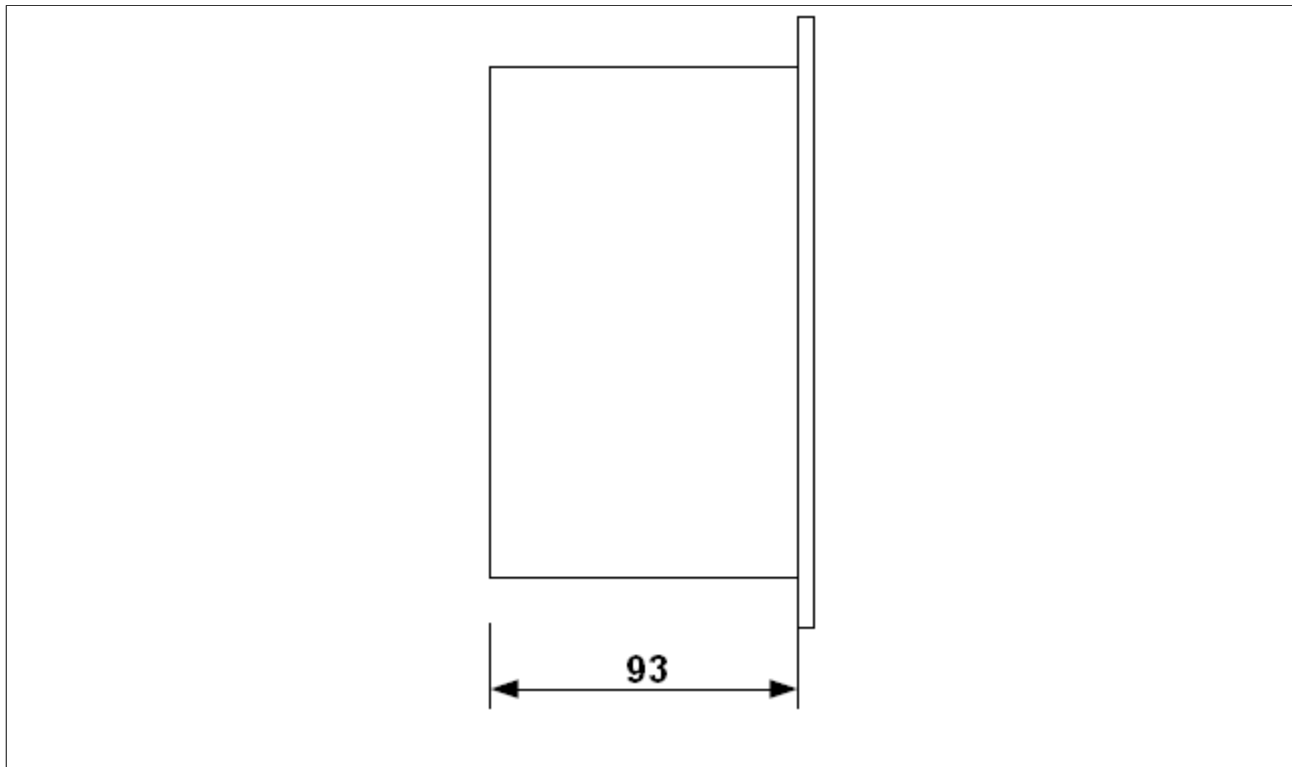




MECHANICS CHARACTERISTICS	
Temperature Range	from -10 °C to +70 °C
Humidity Range	from 10 to 90% (non-condensing)
Operating Atmosphere	Without corrosive gas
Noise Immunity	According to rules in force
Fixing System	Four M4 pegs
Weight	1 Kg
Keyboard	Membrane keyboard on anodized aluminium front part with 8 function buttons (from F1 to F8) and 10 numeric buttons .
Display	Graphic display 240X128 (40 characters for 16 lines) backlight LED . 9LEDS on function buttons.
Size	Front view 203x164 mm , Depth 93 mm



The drawing shows a rectangular device with a depth of 5 mm. The overall width is 203 mm and the overall height is 164 mm. The inner display area is 143 mm high and 167 mm wide. The bottom panel is 183 mm wide. There are four circular mounting holes, one in each corner.



SOFTWARE CHARACTERISTICS	
Programming Languages	AWL / Ladder
Timers	64 timers with 16 bits and resolution 1/100 sec . 32 configurable timers one by one like excitation delay or disexcitation delay and 32 only excitation timers . 8 timers free running with 1 msec resolution enabled one by one with system flag .
Counters	32 counters with 16 bits configurable one by one like incremental or decremental .
Data Memory	2048
Developed Functions	<ul style="list-style-type: none"> - Week Programming - Recipe Management - Step Motor Management - Encoders Management - Forwarding/Reception SMS Messages



Developed Functions	<ul style="list-style-type: none">- Week Programming- Recipe Management- Step Motor Management- Encoders Management- P.I.D. Temperature's Regulator- Forwarding/Reception SMS Messages
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)	●