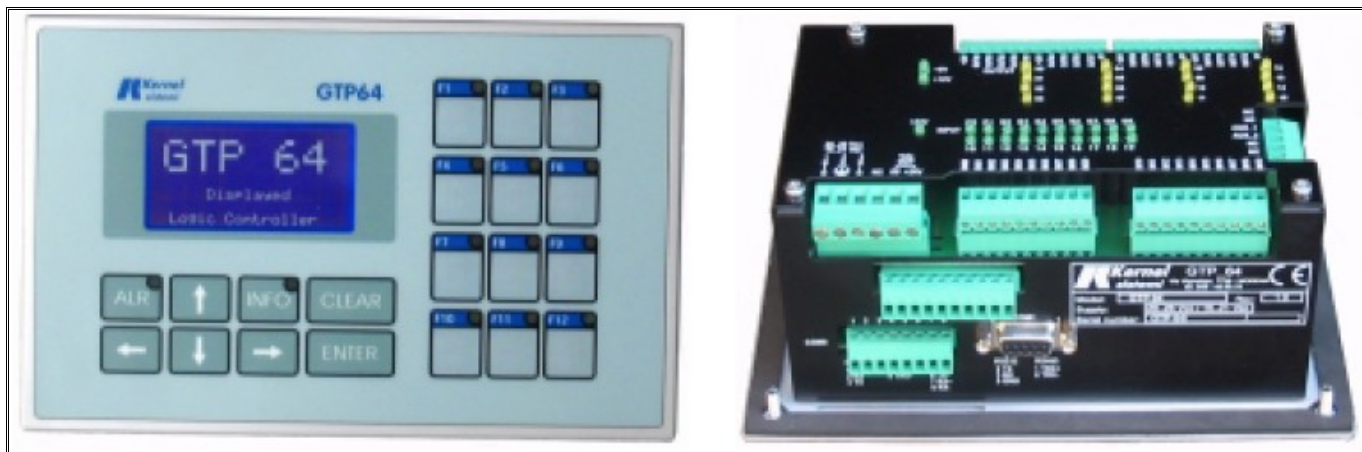




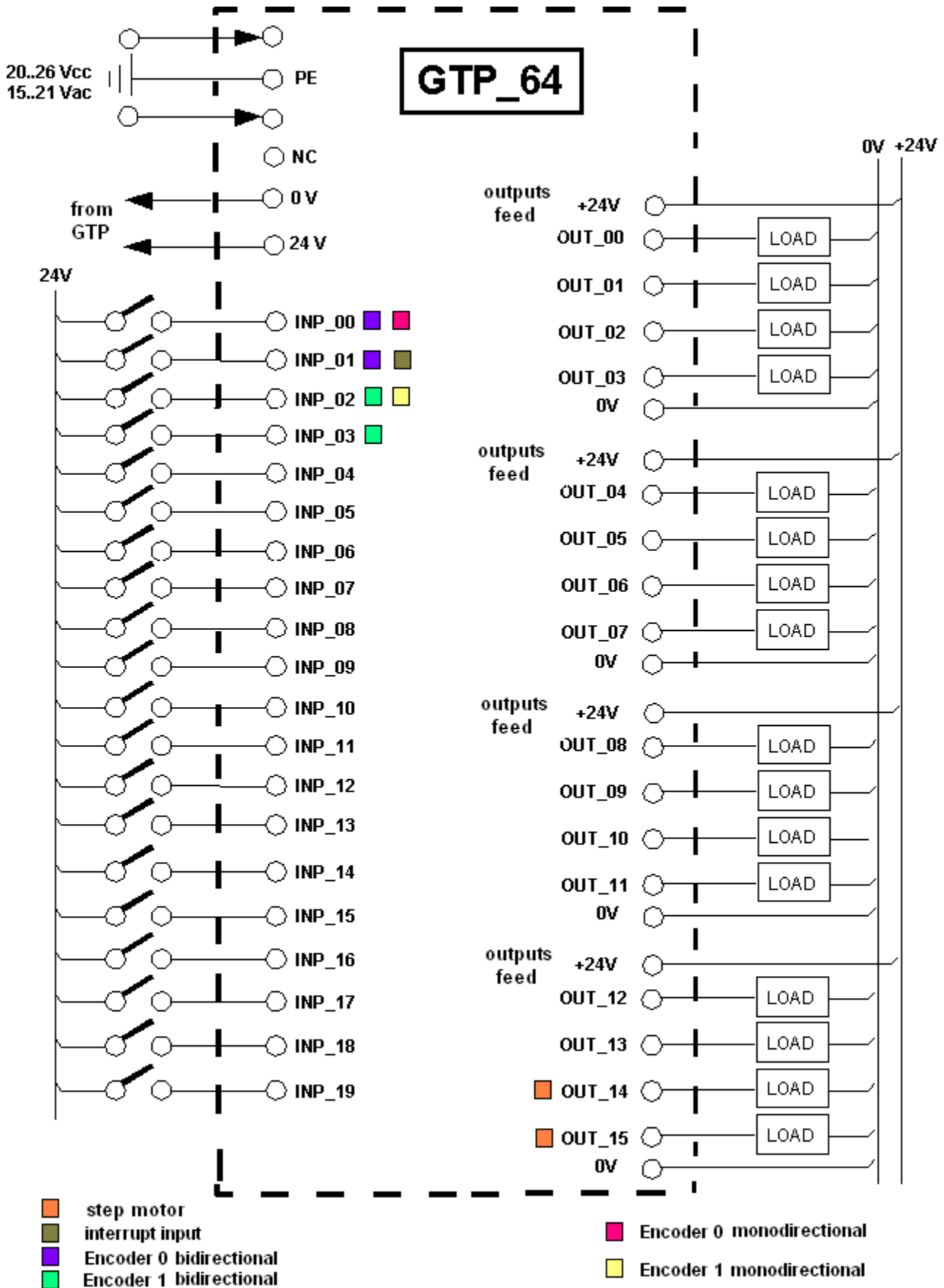
GTP 64



Operator panel with integrated PLC

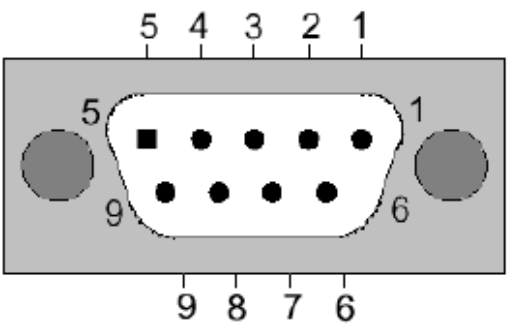
- Graphic LCD 128x64
- High speed (2msec. standard cycle time)
- Contact programming with Ladder language
- Function for Recipe management , P.I.D. Regulator , Print etc ...

ELECTRIC CHARACTERISTICS	
Power supply voltage	Min 20Vcc ; Max 26 Vcc Min 15 Vac ; Max 21 Vac
Current Consumption	Under 150mA without loads
Microprocessor	Hitachi H8S/2145B @ 20MHz
Program Memory	32 KB
Pages Memory	128 KB
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)



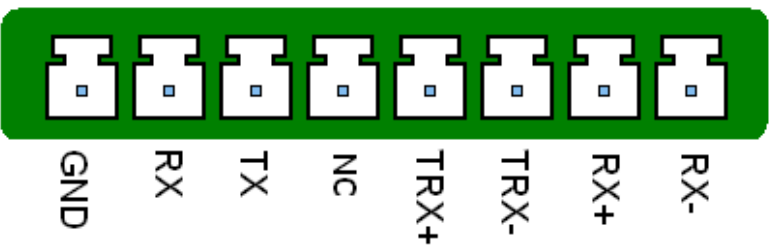


Analog Inputs	4 configurable analog inputs, 10bits. 2 inputs for voltage, current , PT100 or TMC and 2 inputs only for voltage or current.
Digital Outputs	16 PNP static outputs 24V and 500mA
Analog Outputs	2 analogic outputs +/- 10V 12 bit [0...4045] and 2 analogic outputs 0...+10V con risoluzione 8 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 rechargeable battery . (for a term of 1 year)
Serial Lines	2 serial lines (COM 0 , COM 1) 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) . COM 1 : It could be used in RS232 and it's used like COM0 , besides for upload applications or operative system .



COM 1

RS232	RS485
2 RX	1 TRX+
3 TX	6 TRX-
5 GND	

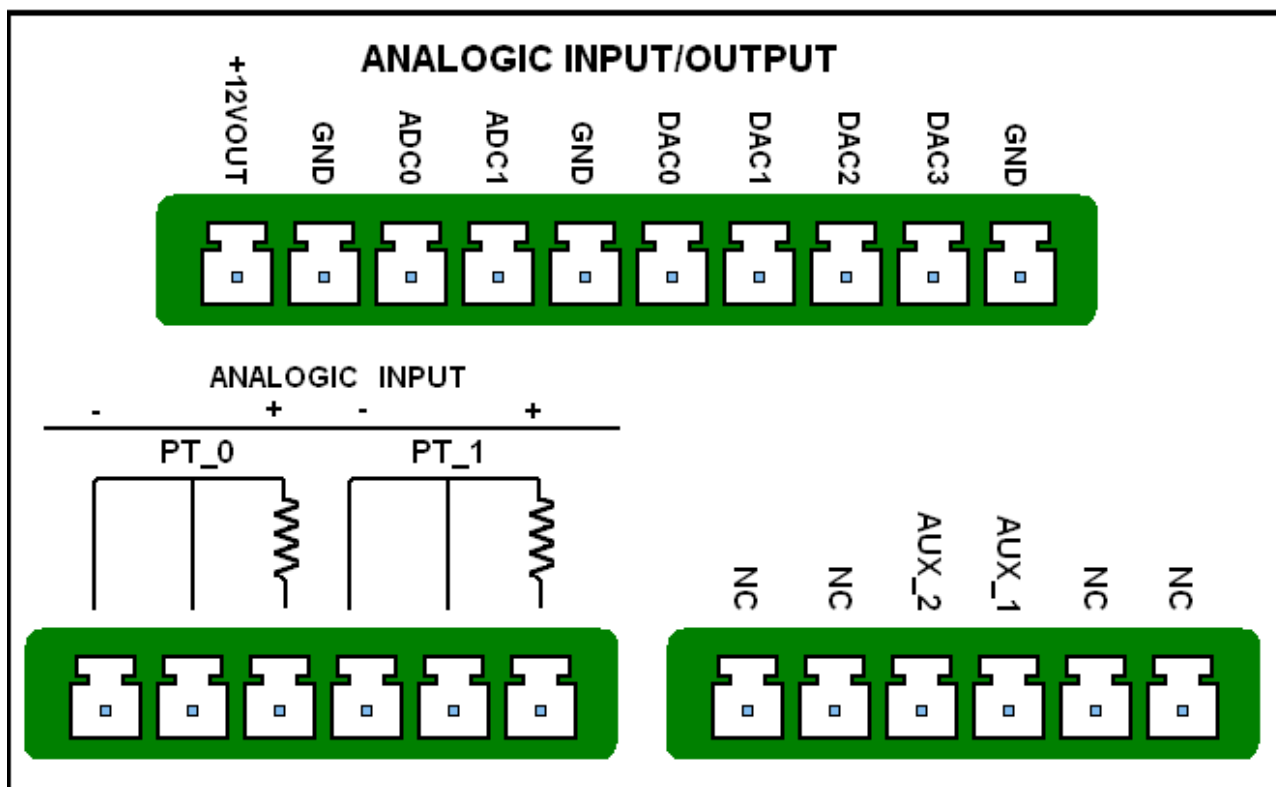


COM 0

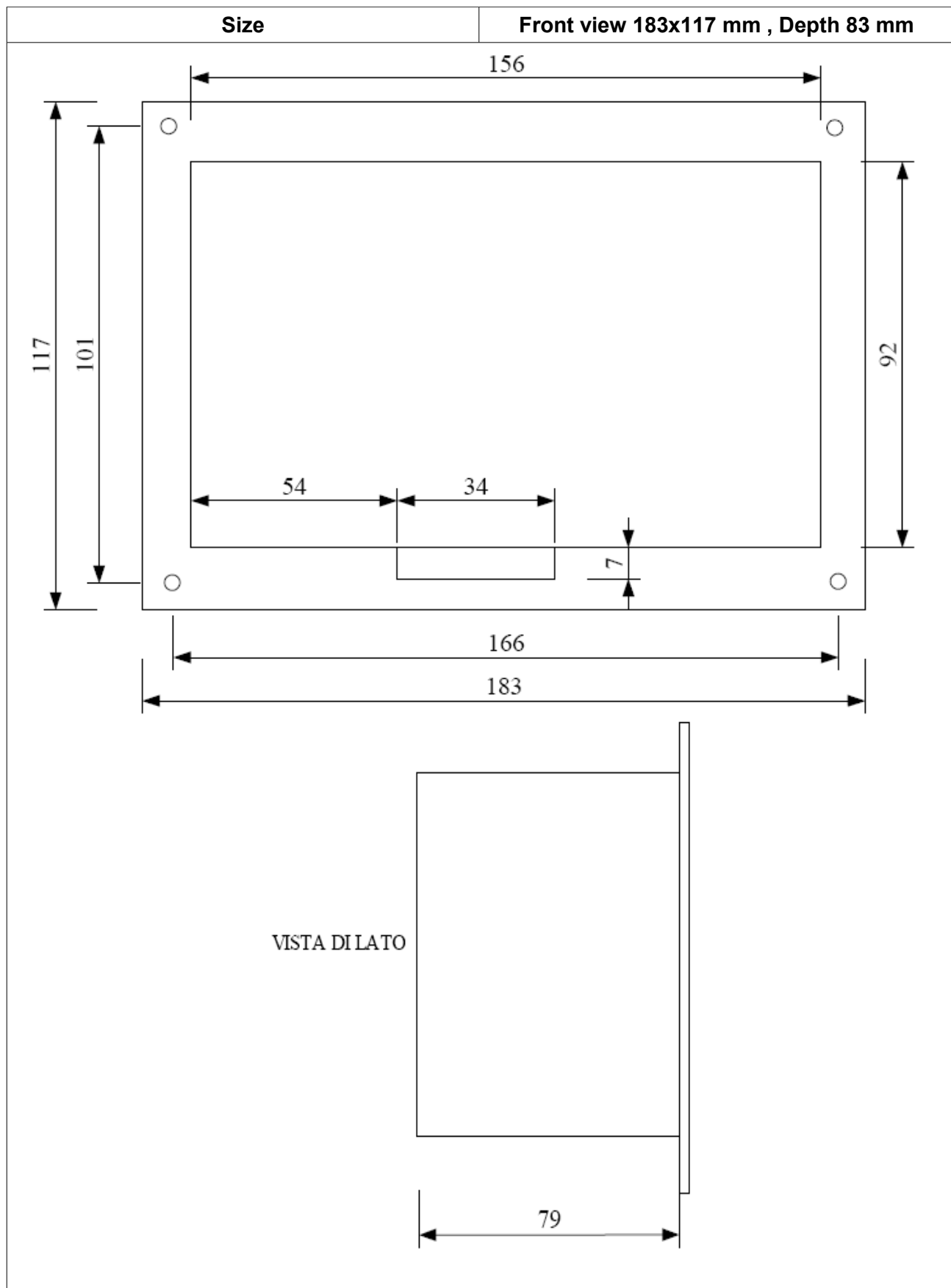
RS232	RS422	RS485
2 RX	7 RX+	5 TRX+
3 TX	8 RX-	6 TRX-
1 GND	5 TX+	
	6 TX-	

Jumpers

COM 1	COM 0
<input type="checkbox"/>	<input type="checkbox"/>
RS485	RS485
RS232	RS422
RS485	RS232



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	690 g
Keyboard	Membrane keyboard on anodized aluminium front part with 12 function buttons (from F1 to F12) and 8 dedicated buttons .
Display	Graphic display 128X64 (20 characters for 8 lines) backlight LED . 13LEDS on function buttons.





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 - 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)	●