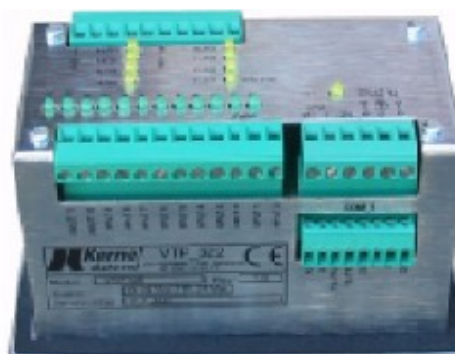
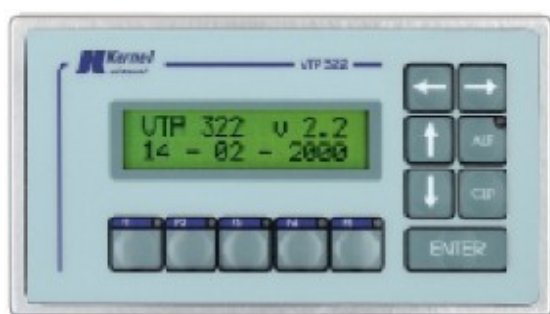




VTP 322



USER MANUAL



rev. 1.1
11 February 2021

Operator panel with integrated PLC

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

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INDEX

1	HARDWARE CHARACTERISTICS.....	3
1.1	General VTP_322 characteristics table :.....	3
1.2	Digital Inputs and Digital Outputs.....	4
1.3	Serial Ports.....	5
1.4	Analog.....	5
1.5	Side View.....	5
1.6	Rear View.....	6
2	CONTACTS.....	7

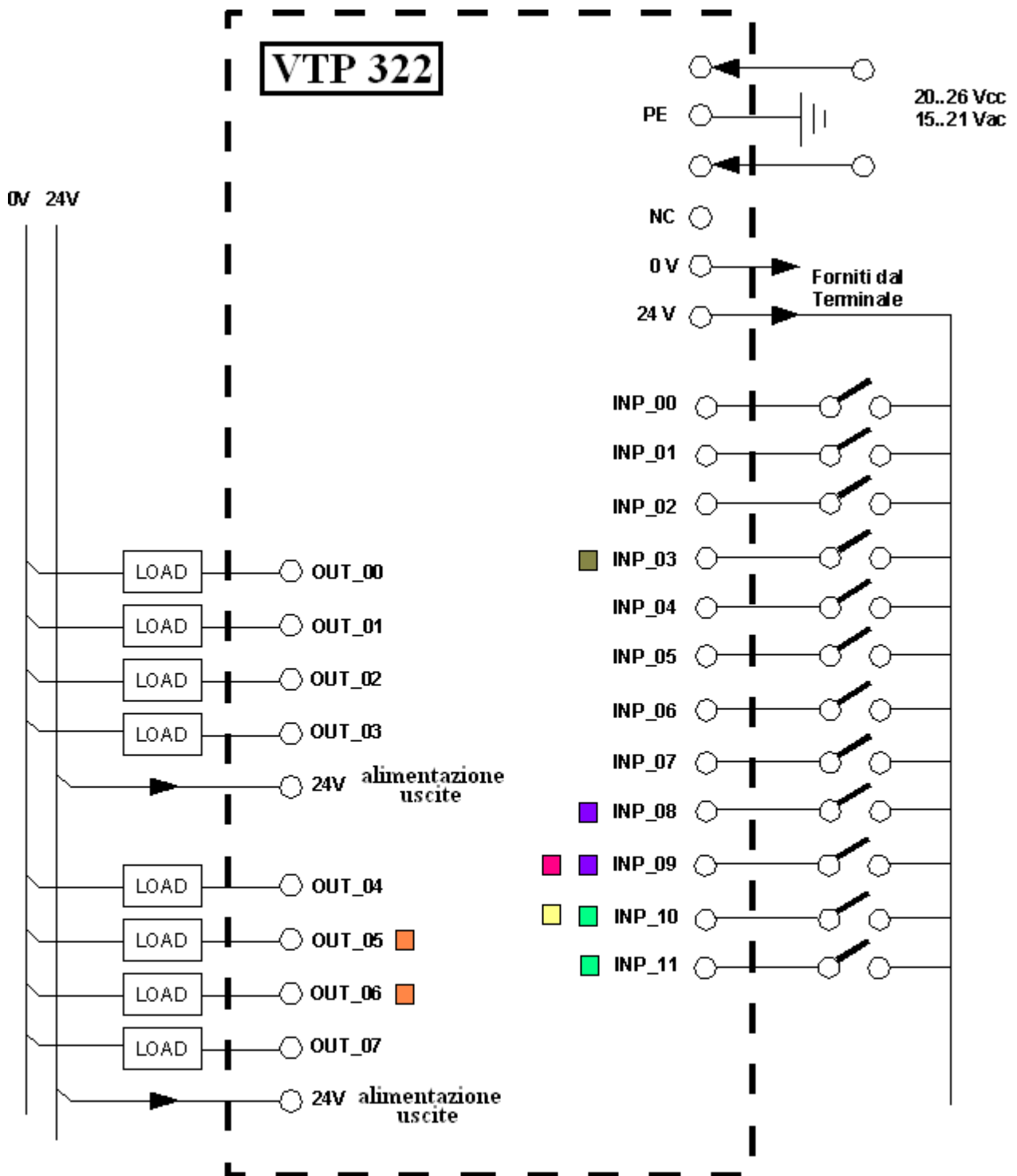
1 HARDWARE CHARACTERISTICS

In this chapter the hardware features of the VTP_322 are described :

1.1 General VTP_322 characteristics table :

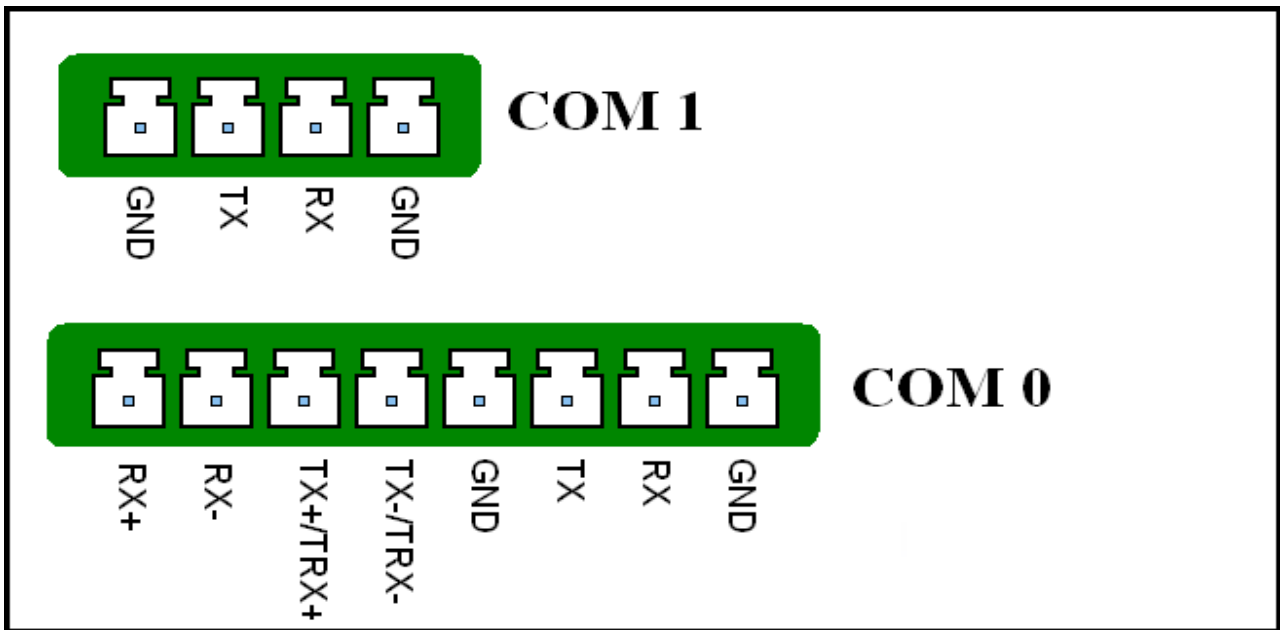
ELECTRIC CHARACTERISTICS	
Power supply voltage	Min 20 Vcc ; Max 26 Vcc --- Min 15 Vac ; Max 21 Vac
Current Consumption	Under 100 mA without loads
Microprocessor	CPU HITACHI H8S/2145B a 16/32 Bit a 20 MHz with 128 KBytes of Programmable Flash on board, including 64 MB dedicated to the system
Memory	1024 DATA MEMORY , 16-bit general purpose, some of which have particular meaning, numbered from DATA_00 to DATA_1023. From DATA_00 to DATA_431 are volatile. From DATA_432 to DATA_511 automatically copied to buffer RAM every 100 msec (lasting one year). From DATA_512 to DATA_1023 copied to external EEPROM on command or automatically from a terminal.
Program Memory	32 KBytes for application program
Pages Memory	32 KBytes for pages and test
EEprom	External non-volatile EEPROM 64 KB for storing recipes,manageable blocks or benches
Cycle Time	Programmable (minimum 1 msec.)
Digital Inputs	12 digital inputs PNP at 24 Volts of which 4 fast input (2KHz for encoder reading) with programmable anti-noise filter (value 1...16)
Analogic Inputs	1 analogic inputs with 10 bit resolution [0...1023] for PT100, thermocouple, voltage or current
Digital Outputs	8 PNP static outputs 24V and 500mA
Analog Outputs	2 analog outputs 0...10V 10 bits resolution [0...255]
Plugged RAM	79 words any 100 msec automatically copy into plugged RAM (for a term of 1 year)
RTC	External real time clock with plugged calendar and clock with rechargeable battery. (for a term of 1 year)
Current analog input Impedance	250 Ohm
Voltage analog input Impedance	10 KOhm
Serial Lines	<p>2 serial lines (COM 0 , COM 1) .</p> <ul style="list-style-type: none"> • COM 0 : It could be used in RS232 , RS485 or RS422 with many different standard communication protocols for connect other devices (I/O expansions, thermoregulatory, inverters or network connection) . • COM 1 : It is RS232 mode and it's use like COM 0, besides for upload applications or operative system.
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	Fixing Bracket
Weight	570 gr
Keyboard	Membrane keyboard on anodized aluminium front part with 5 function buttons (from F1 to F5) and 7 dedicated buttons.
Display	Alphanumeric display 16 characters on 2 rows, with led's backlight. Five leds on function buttons and one alarm led. On demand available also Cyrillic display.
Size	Front view 133x74 mm, Depth 63 mm

1.2 Digital Inputs and Digital Outputs

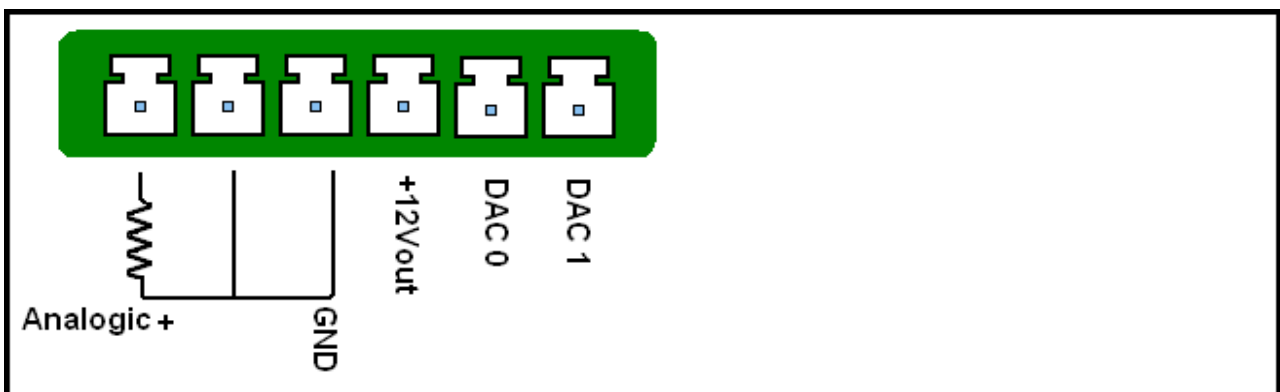


- Treno impulsi per motore PP
- Ingresso interrupt
- Encoder 0 bidirezionale
- Encoder 1 bidirezionale
- Encoder 0 monodirezionale
- Encoder 1 monodirezionale

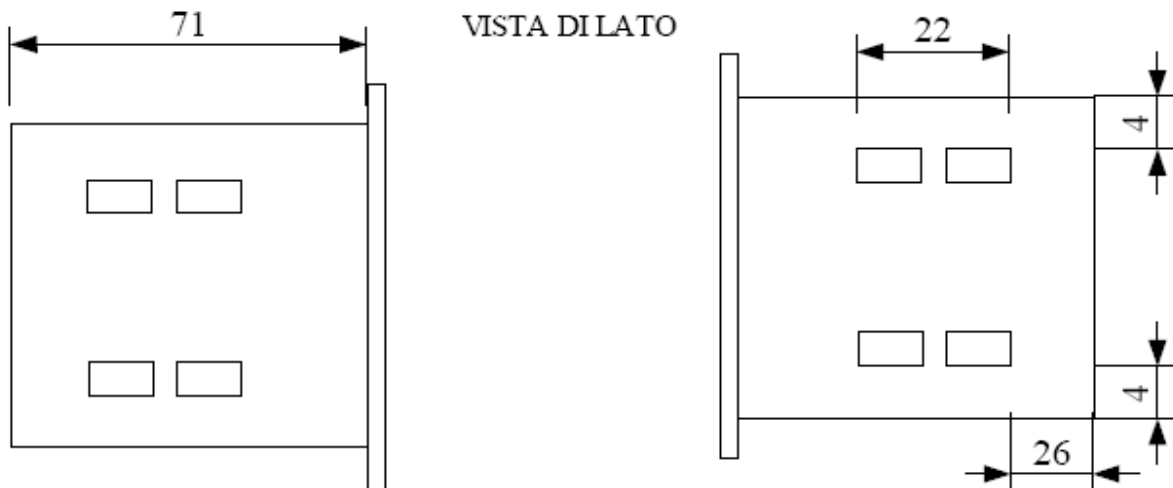
1.3 Serial Ports



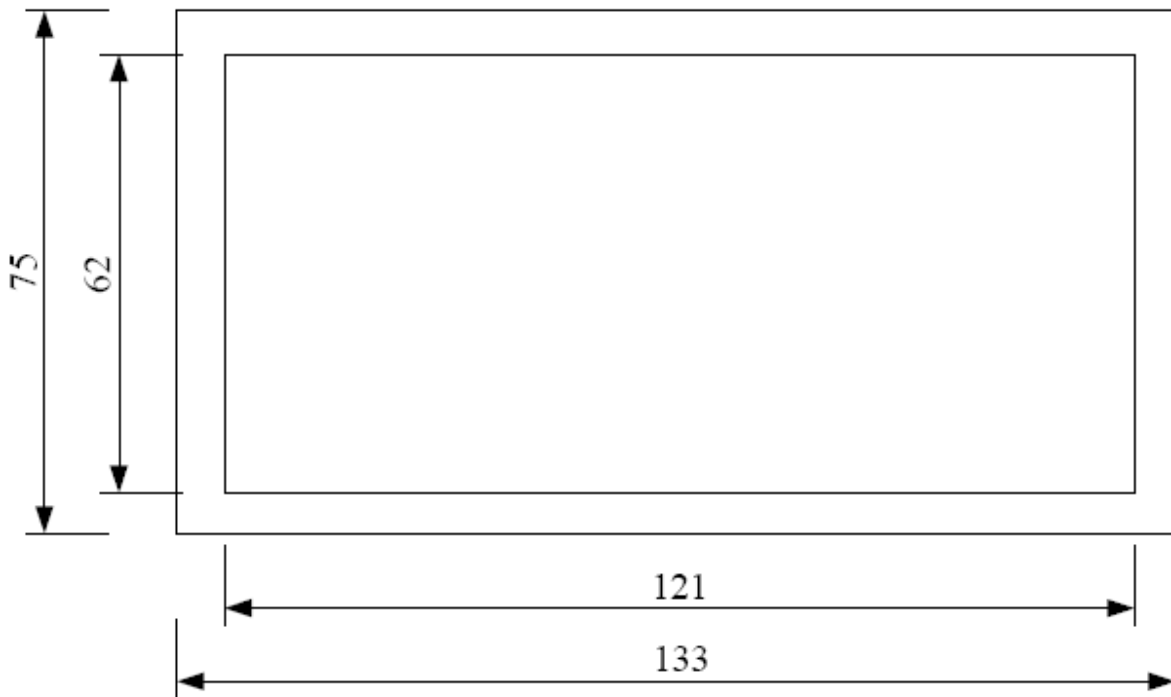
1.4 Analog



1.5 Side View



1.6 Rear View



2 CONTACTS

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