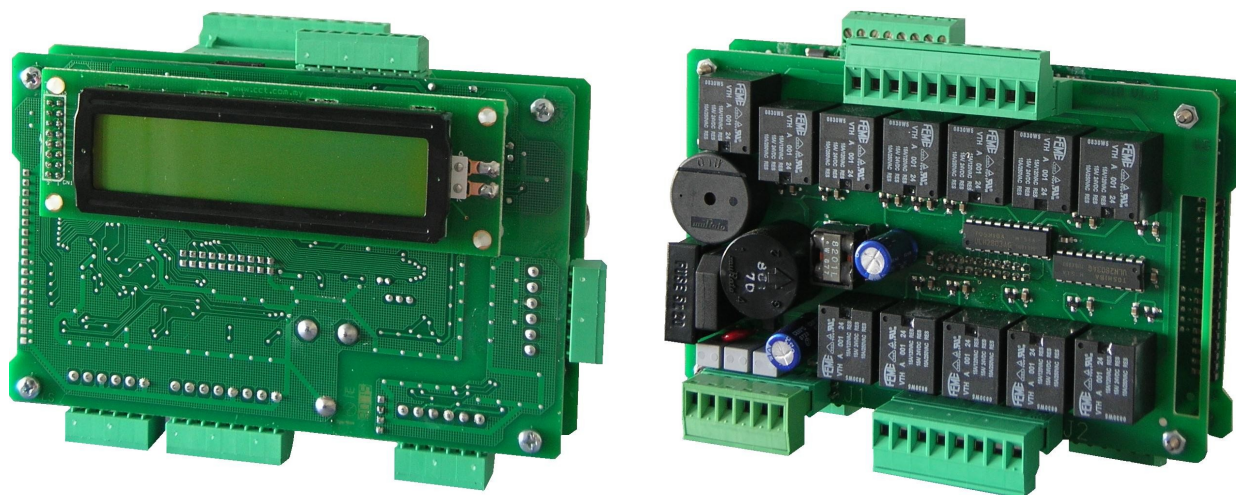




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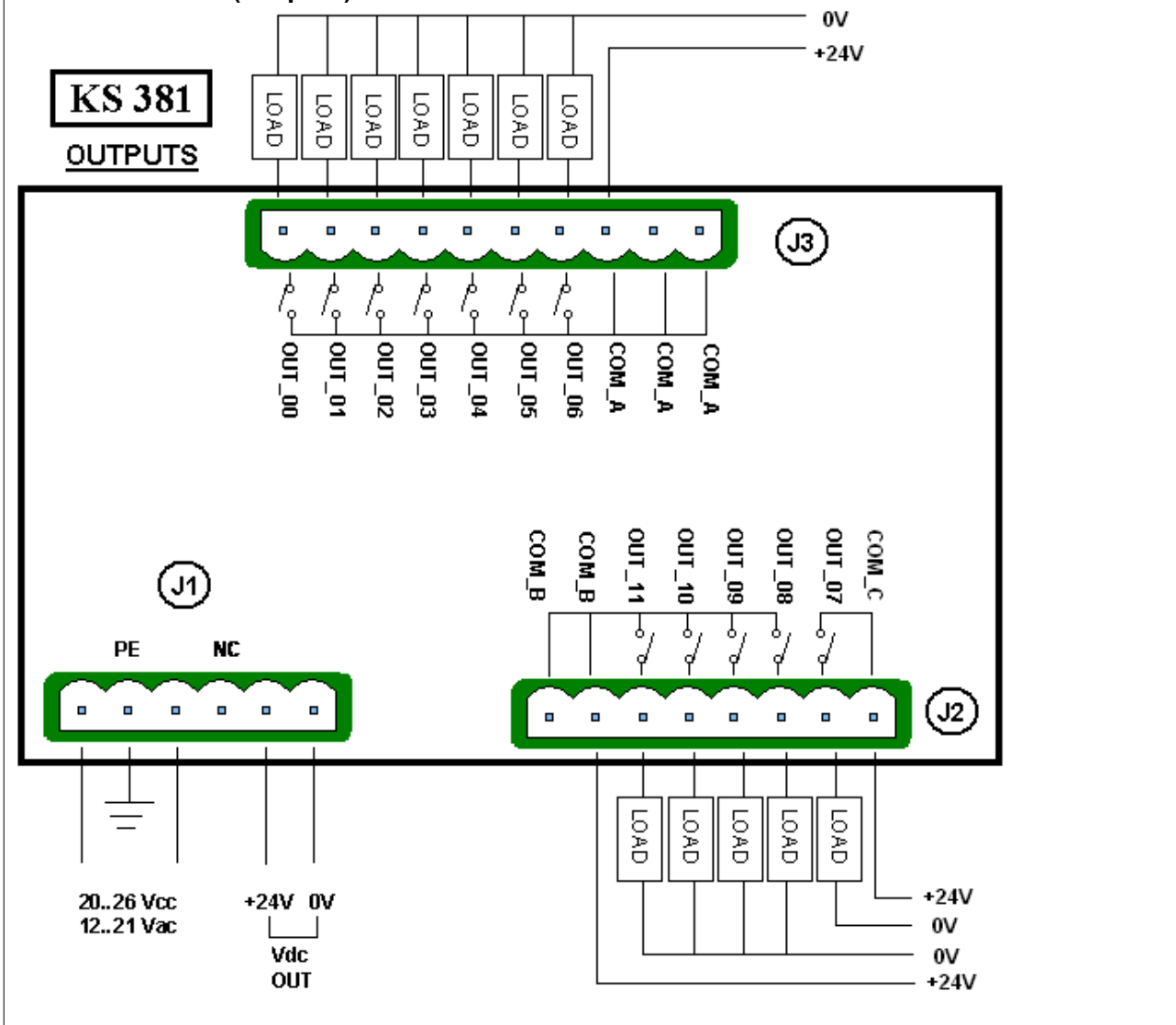


Operator panel with integrated PLC

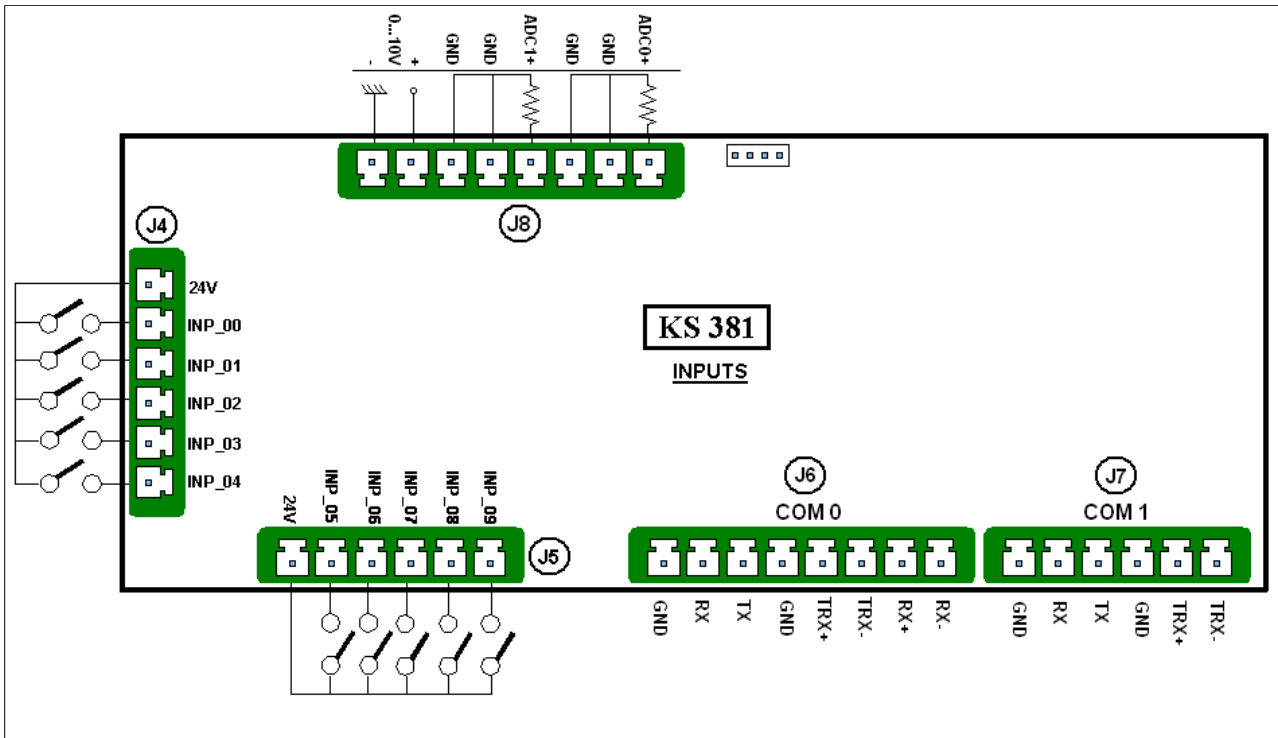
- Alphanumeric LCD 20 x 2
- Customizable keyboard
- Contact programming with Ladder language
- Function for Recipe management , P.I.D. Regulator , Print etc ...

ELECTRIC CHARACTERISTICS	
Power supply voltage	Min 20Vdc ; Max 28 Vdc Min 14 Vac ; Max 20 Vac
Current Consumption	Under 500mA without loads
Microprocessor	Hitachi H8/36109 @ 8MHz
Program Memory	32 KB
Pages Memory	32 KB
E²PROM	1 Kword
Cycle Time	Programmable (minimum 1 msec.)
Digital Inputs	10 digital inputs PNP 24 Volts of which 4 fast input (1KHz for encoder reading) with programmable anti-noise filter (value 1..16)

Connections I/O (Outputs)



Analog Inputs	3 analogic inputs with 10 bit resolution [0...1023]. 2 inputs for PT100 , termocouple , voltage or current and one input only for voltage or current.
Digital Outputs	12 relay outputs at 250V , 8A
Analog Outputs	No analog outputs
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)

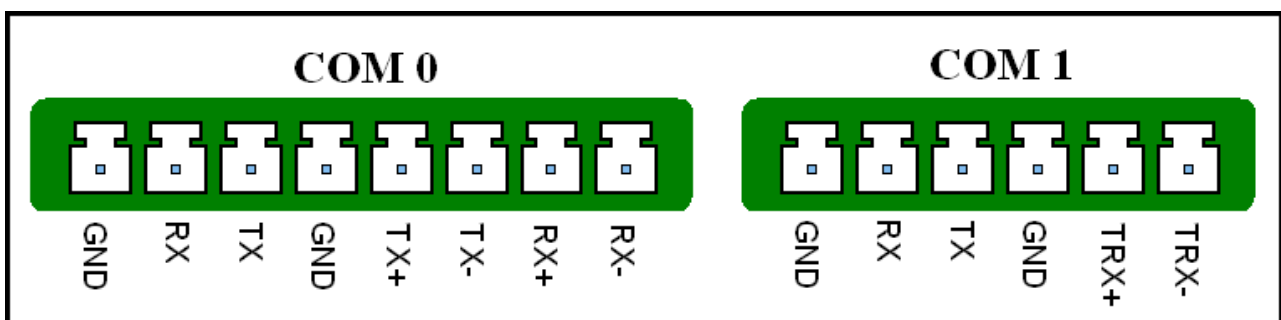


Communication Ports

2 serial lines (COM 0 , COM 1) .

COM 1 : It could be used in RS232 or RS485 mode and it's use like COM0 , besides for upload applications or operative system .

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) .

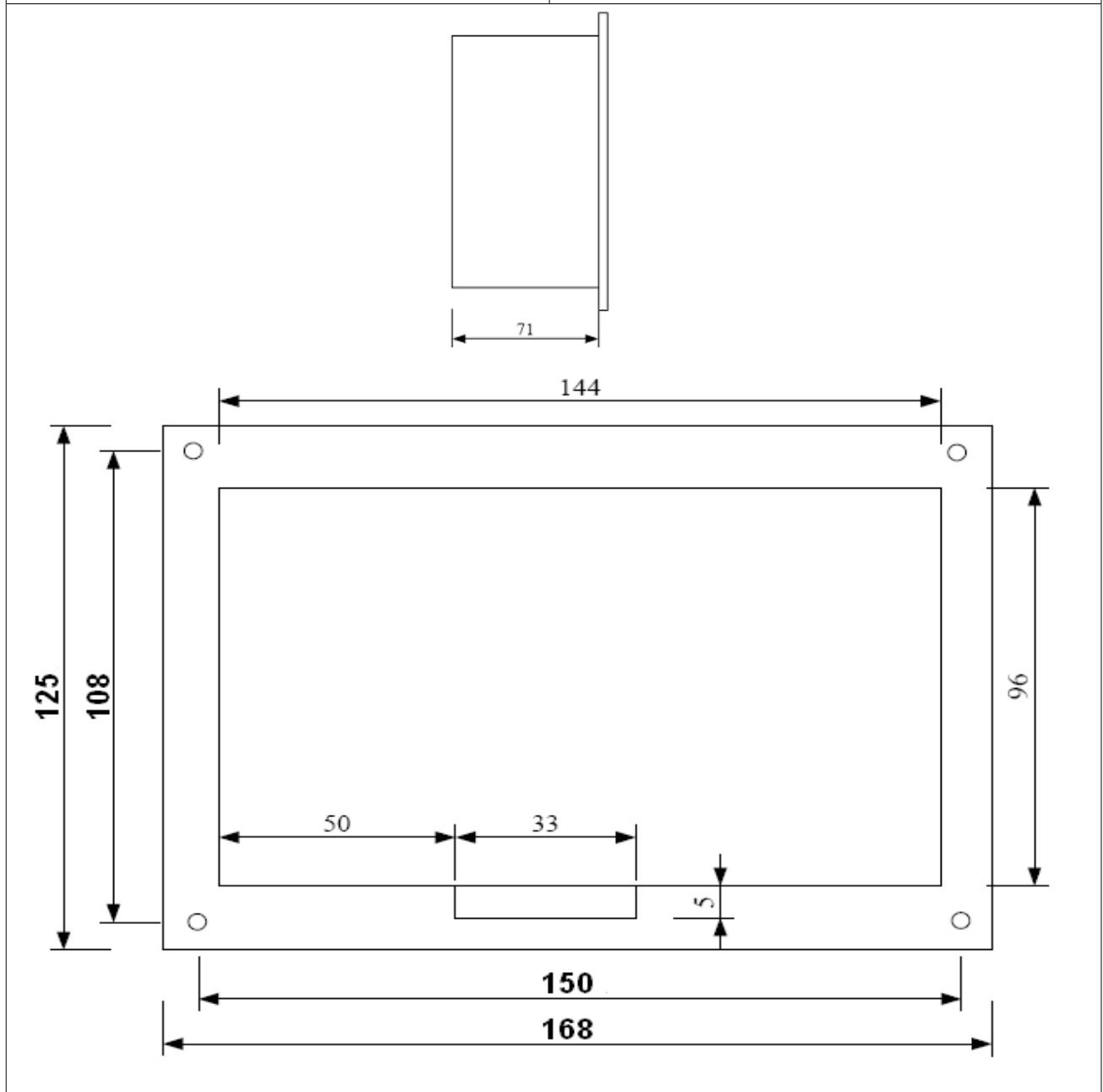


MECHANICS CHARACTERISTICS

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	736 gr (without keyboard)
Keyboard	Membrane keyboard on anodized aluminium font part . Keyboard customizable. (max 20 buttons and max 8 leds)
Display	Alphanumeric display 20 characters on 2 rows , backlight LED
Size	Front view 168x125 mm , Depth 71 mm





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	1024
Developed Functions	<ul style="list-style-type: none"> - Week Programming - Recipe 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)	●