MICROPROCESSOR COMPUTATIONAL UNIT   S2000

GENERAL FEATURES

- Digital inputs	:	voltage if open contact 5 Vdc, current if closed contact 1mA.
- Digital outputs	:	max 300 mA , 30 Vdc.
- Analog inputs	:	0..20 mA or 4..20 mA input resistance 100 Ω.
- Analog outputs	:	0..20 mA or 4..20 mA active, max load resistance 300 Ω.
- Power	:	S2000-1-ST 115 or 230 Vac +- 10% 50 or 60 Hz, 3.5 VA.
		S2000-23-ST 24Vdc-ac +-10% 3,5W.
- Temperature and humidity	:	0..+50°C, 90% at 40°C not condensing
- Box	:	for 35 mm (DIN46277) section hooking or screw fasten,
		in auto extinguishing NORYL resin.
- Size and weight	:	157.5 x 95 x 69 mm, 500 g
- Precision	:	stability 0.01 %/°C
		linearity 0.05 %
		precision 0.1 %

DESCRIPTION

S2000 is a microprocessor device analog and digital inputs and outputs, and it consequently execute on these ones many kinds of operations. The operations to be done can be stored by user by PC by a dedicated optional program,or they can be stored directly in factory.

Operation accuracy depends on signals input and output conversion resolution ; a 12 bit conversion is provided for inputs and outputs (4096 resolution's points) .

The conversion range of incoming signal is included from -102.4% to +102.4%, while the output's range is included from 0 to +102.4% : these values refers to a 0..20mA signal.

A possible 4..20 mA input or output can be obtained via software and the conversion speed for analog channels is 160mS for every channel, 640ms for complete scanning.

RS232C (or RS485) serial communication link is also avalaible, for measures, acquisition or generation of digital and analog signals through a PC IBM or other computer.

Inputs and outputs own the same negative line (GND) so the 9, 15, 17, 20, 22, 24, 26 connecting terminals are internally linked together: this characteristic must be considered during connections.
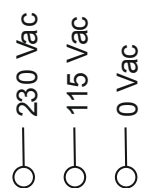
The green LED placed at the opposite side of the connecting terminals shows the supply presence while the red one, if blinking, signalizes the microprocessor's failure; a short lightening after starting or shutting down of the device is absolutely normal!
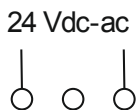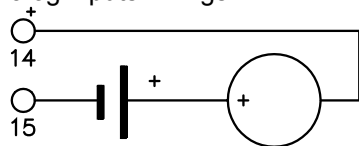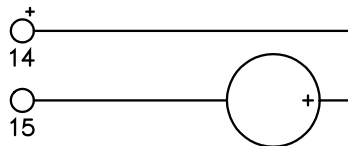
CONNECTION'S PLAN
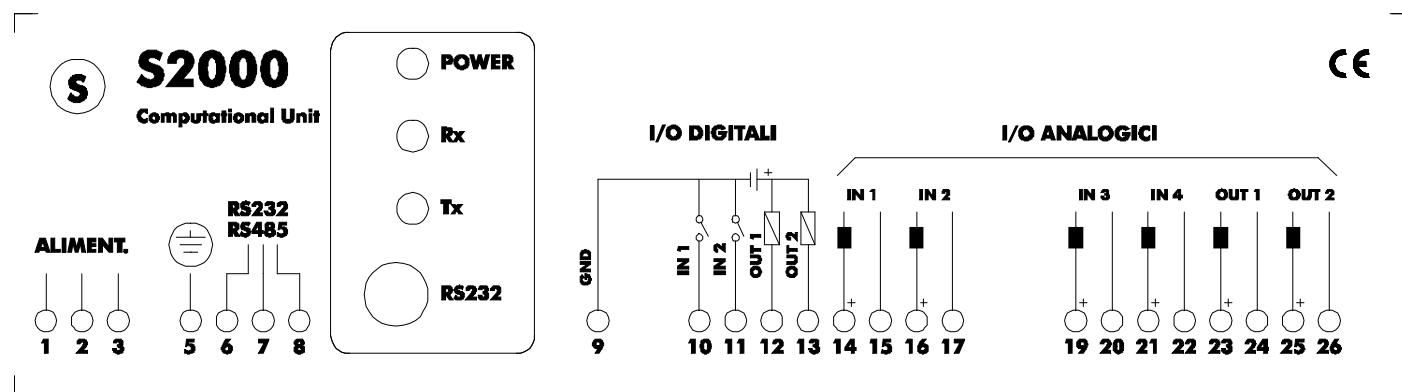
POWER SUPPLY

S2000-1-ST   S2000-23-ST

230 Vac 115 Vac 0 Vac

24 Vdc-ac

Analog inputs wirings:

Passive sensor wiring.

Active sensor wiring.

Attention :   Connect clamp 5 to system earth.
The dip-switch put between clamps 17 and 19 must be put in ON (1) only when device is in programming mode.When this operation has executed it is necessary to put dip-switch in OFF (0) position.

Those tricks are necessary for a perfect operation for the device.