

REP-100 EMCSA

**Electronic regulator for Proportional Valves
single Solenoid**

The command REP-100 is born for controlling proportional valves with one solenoid valves open loop ie those that do not have internal positioning of the transducer. The REP100 device is a microcontroller that thanks to this technology, "DIGITAL", you can drive any type and brand of proportional valve, a voltage between 10 and 30 Vdc and a current between 0 and 2500mA. Adjustment of the current and ramps is done via a PC or handheld programmer software GAMMA1.32 SUITE PES93C46. The controller is integrated into a completely sealed metal box with IP67 protection.

SPECIFICATIONS:

- POWER:@ 8V to 30V
- BURDEN: 18mA @ 12V
- POTENTIOMETER INPUT RESOLUTION: 10Bit
- OUTPUT VOLTAGE POTENTIOMETER: + 5V
- MAX. POTENTIOMETER OUTPUT POWER: 1W
- POTENTIOMETER RECOMMENDED VALUES:4K7/10K
- REFERENCE INPUT: 0 to 4.5 V / 0-10V / PWM
- AREA OF NOT WORKING: 0V
- CURRENT ADJUSTMENT
- PROPORTIONAL SOLENOID:
- 0.05A to 2.5A @
- CURRENT ADJUSTMENT Imin., Imax:
- 0-50%
- SETTING TIME OF RAMP: 0 - 10sec
- PWM: 100Hz-330Hz
- PWM RESOLUTION: 8 Bit
- TOLERANCE: +/- -2%
- TEMPERATURE RANGE: -15 ° C to +70 ° C
- TERMINATION: cable
- DEGREE OF PROTECTION: IP67
- EMI FILTERS All the inputs and outputs
- OUTPUT PROTECTED AGAINST SHORT CIRCUITSEGNALAZIONE VALVE
- BROKEN OR MISSING
- PROGRAMMING PARAMETERS Imin., I-max., Ramps,
- Reference d 'Entry, Power Valves, PWM working,
- Adjusting the sensitivity of the input signal
- OPTIONS: Serial communication RS232, Co-munication Can Bus



**PRODUCT COMPLIANCE WITH EUROPEAN DIRECTIVE RHOS
2002/95/EC**

CE Certification

Electromagnetic compatibility with European Standards EN61000-6-2

industrial immunity

Emission EN 61000-6-4.

**NB If you use cables longer than 3 meters you must insert a ferrite EMI
7427044 (74270057) on the cable of the valve.**

Code Article: F00199



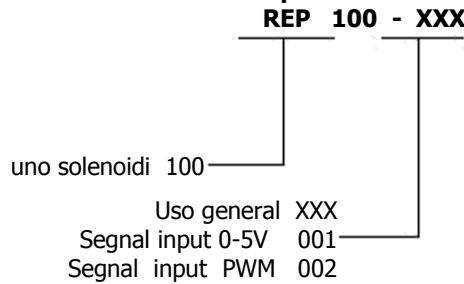
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MODELLI:

- REP- 100 - XXX
- REP- 100 - 001
- REP- 100 - 002

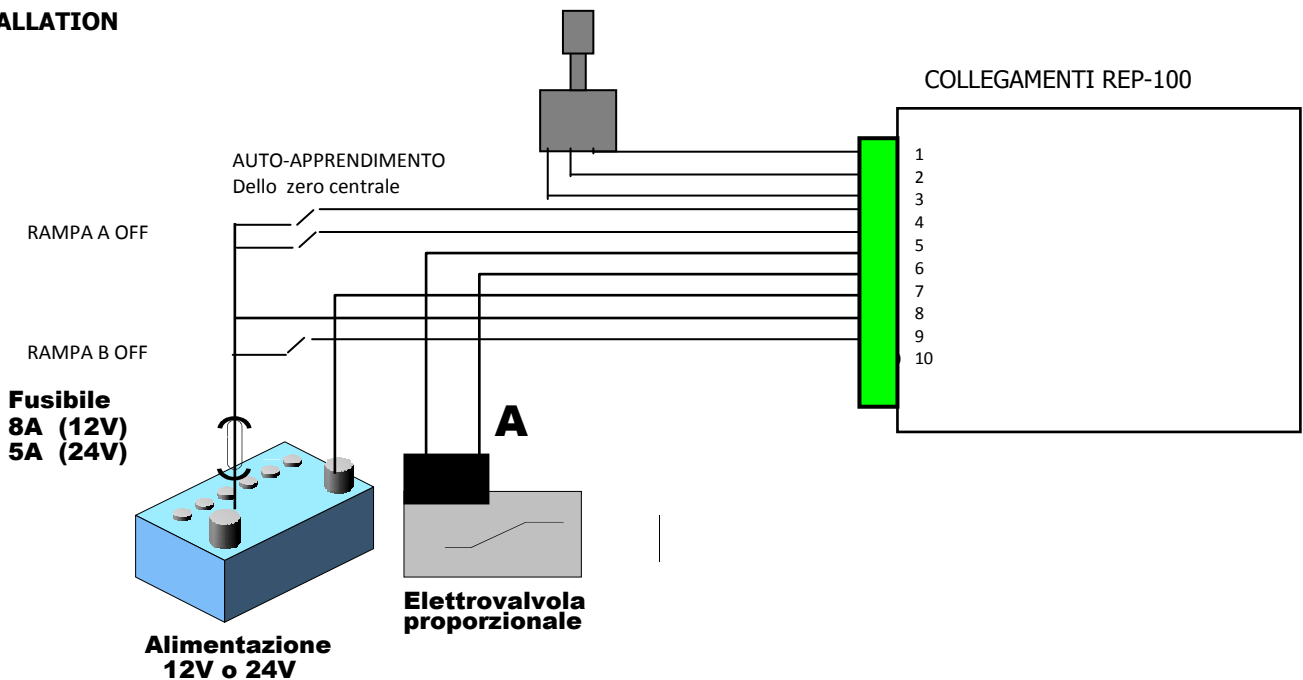
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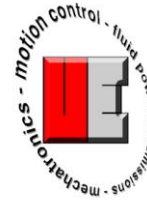


OPERATION

The controller REP-100 is integrated in a box with snap-on omega bar with 12-pin removable terminal on the front. The system works on the principle of pulse width modulation said PWM and is operated in the back current to obtain an output current to the solenoid proportional to the input signal. They were provided protections against output short circuit, overload red LED always turned off the power to rehabilitate the system, current limitation and overtemperature protection against reverse polarity. In the case of open circuit (open coil), the red LED flashes overload. Ability to enable a short circuit input into the eeprom leased 0x0A putting 00.TARATURA. The REP-100 can be adjusted to suit your needs through the dedicated software programmer or GAMMA1.32SUITE PES93C46. Inserting the cable into the connector the system automatically positions itself in the programming mode and the display of PES93C46 will display the data contained in the REP-100. Using the UP and DOWN buttons to scroll through the data by changing the parameters via the numeric keypad enter to confirm them, then later switch to the next display until it shows the message PROGRAM. At this point with the F2 key, you program the REP-100 with the new data. And 'possible to provide the REP-100 pre-calibrated to customer specifications.

INSTALLATION

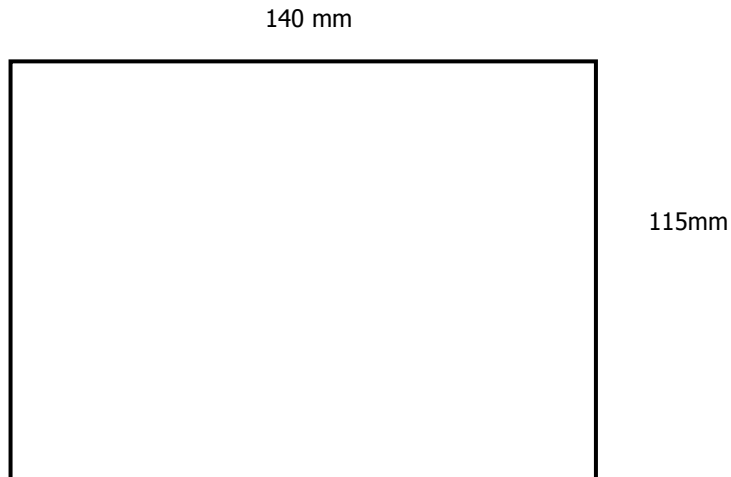




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DIMENSIONS



The company assumes no responsibility for any errors that may appear in this document and reserves the right to change the descriptions and data without prior notice.

