MICROCOMPUTER FOR MONITORING
THE PROCESS PARAMETERS

CAOM MSMP- 01

The T.U.v.01 device is hardware/ software device designed to work in automation process systems. This device allows the measurement and the cyclic display of 8 input parameters (4…20 mA or 0…5V) as well as the signalization and alarm of over- passing the measurement limits. For eachinput, a new series of parameters will be programmed, such as: minimum and maximum values in engineering units, alarm and failure values, input filtration coefficient, decimals number.

The system has 4 relay contact commands in order to signalize the over-passing of one of the alarming or failure limits. The device can be connected to a RS485 network for computer monitoring of the inputs.

The main unit is structured around an 8 bits microcontroller with the following functions:

- Analogical- numerical conversion of the input signals
- Linearization, radical, quadratic function for the input values
- Signalization of overpassing the programmed limits for alarm (inferior/ superior) and failure (inferior/ superior)
- Two relays command for alarm and two relays command for failure
- Input parameters counting
- History for channel number, input value and the measurement unit for each of the 8 inputs
- The display of the measured unit in engineer units
- Communication into a RS485 network.

Technical Characteristics

Supply Voltage	220 V c.a. ± 10%
Input:	4…20 mA or 0…5 V unified signal
Output	relay contacts for alarms that allow 8A/ 250 V c.a. serial output for coupling into RS 485 network
Output current precision	0.1% from the measurement range
Display	LCD alphanumerical display with 2 rows, 16 characters and backlight
Programming	4 keys system
Measurement range	According to transducer that provides the unified signal
Precision	0,1% from the measurement range
Storage and transportation temperature	-25 ^{0}C …+70 ^{0}C
Humidity	80%
Protection Degree	IP40 (carcass) and IP20 (terminals)
Operating temperature	5-45 ^{0}C
Mounting	In panels or electric boxes
Carcass	ABS box , dimensions 72 x 144 x 156 mm
Weight	Max. 0.750 kg

For details about these products, contact GENPRO LTD in Suceava, G. Enescu Blvd no 16, Suceava county, 720247, Romania
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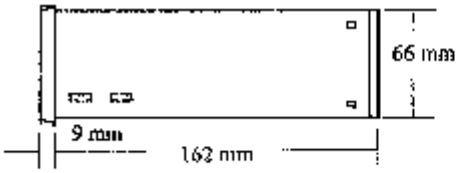

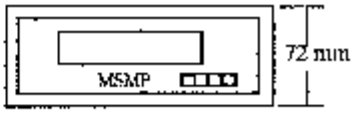

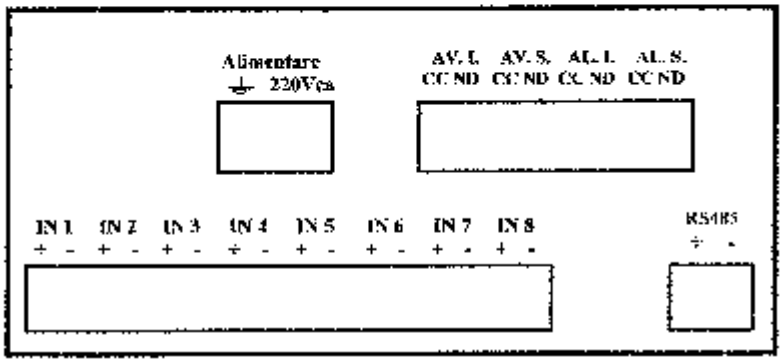

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