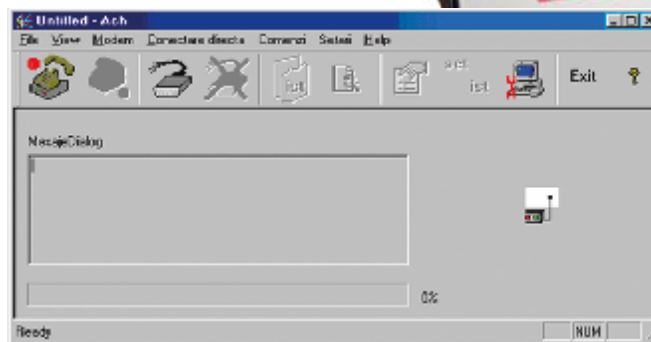


**ACQUISITION AND HISTORY CREATION SYSTEM
WITH COMMUNICATION**

CAOM SACIC- 01

The T.U.v.01 device is a hardware/ software device designed to work in automation process systems. This device allows the measurement and the cyclic display of 12 input parameters (4...20 mA or 0...5V) as well as the signalization and alarm of over- passing the measurement limits. For each input, a new series be programmed, such as: maximum values in alarm and failure values, coefficient, decimals system has 2 relay contact commands in order to signalize the over-passing of one of the alarm limits, and two relay contact commands for a GSM modem. The device also has a RS232 serial interface which connects a computer or a GSM modem in order to have a wireless data transmission at distance. The GSM modem is a separate part and is not included in this device.



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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 2 alarms
- Two relays command for alarm and two relays command for GSM modem
- Input parameters counting
- History for channel number, input value and the measurement unit for each of the 12 inputs
- The display of the measured unit in engineer units
- Communication into a RS232 network.

Technical Characteristics

Supply Voltage	220 V c.a. \pm 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 RS232 coupling
Display	LCD alphanumerical display with 2 rows and 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 °C ...+70 °C
Humidity	80%
Protection Degree	IP40 (carcass) and IP20 (terminals)
Operating temperature	5-45 °C
Mounting	In panels or electric boxes
Carcass	ABS box , dimensions 72 x 144 x 156 mm
Weight	Max. 0.750 kg

The device is delivered with a PC software that connects it to the modem.

The software allows:

- the connection between PC and device or modem and signals the success or failure of this connection
- the history download from the device
- the history save from the device to the PC
- visualization in real time of the data collected by device
- visualization and programming of device parameters
- alarms visualization