

Programmable barometer

Technical data:

Code : MC600
Model : AP-631
Supply : 220 v , 50 Hz , +/- 10%
Range : 0 ...1000 bar
Output : Relay (5 A / 250 Vac) or
 Triac (1 A / 250 V ac AP_213 only)
Amb. Temp.: -10...+50 C
Dimensions : 72x72 mm front panel mounting



Features:

- Auto reset using watch dog.
- Automatic unit change (bar,decibar,centibar,milibar)
- On line parameter editing.
- Offset for zero calibration.
- Relay output for alarm.

Details:

A : Front panel

- 1- Set key : This key is used to:
 - Display and edit preset value.
 - Enter programming mode .
 - Display and edit parameter values.
- 2- UP key : This key is used to :
 - Increase parameter value .
 - Choose the next parameter.
- 3- DN. key : This key is used to :
 - Decrease parameter value .
 - Choose the previous parameter.
- 4- LED-OUT1 : Relay 1 (ON=Relay/Triac is active)
- 5- LED-OUT2 : Relay 2 status (ON=Relay is active)

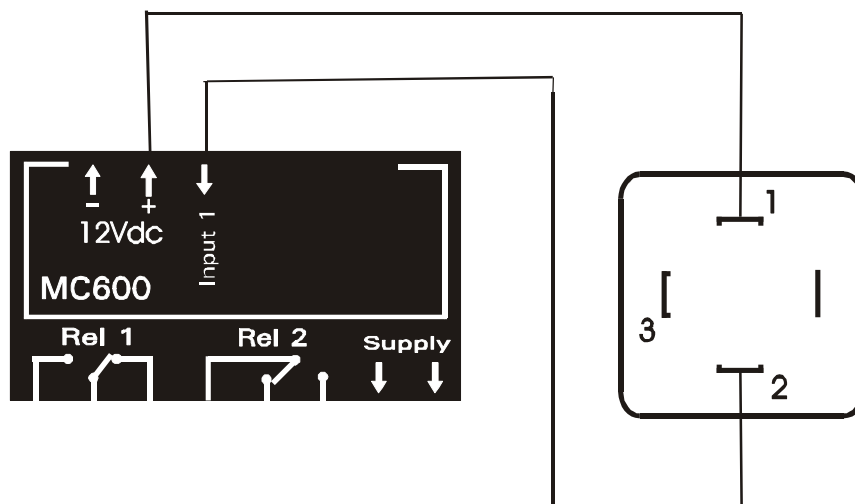
B : Rare side (Input /Output)

INPUTS:

- 1- Supply : Supply terminals (220 v , 50 Hz , +/- 10%)
- 2- - / + / input1 terminal for sensor connection

OUTPUTS:

Relay 1 and relay 2



Operating Instructions

- This unit operates in two deferent modes Normal mode (Displaying pressure.) Programming mode (Displaying parameters). Connect supply and pressure sensing wires ,apply power and the unit will blink the characters A.P. for 4 seconds and then starts operating in normal mode. (if sensor is misconnected or faulty “Error” will be displayed until error rectified)
- To view and edit the operator parameters (“Set.L.” , “Set.H.”) Press and hold the “Set ” key until one of the above parameters is Displayed ,release the set key ,now you can view the para. value by pressing the “Set” key again and edit the value by UP/DN keys.
- To view and edit all the parameters ,power off the unit and while pressing the set key Power on the unit again ,the unit will start in programming mode by displaying the first para.(“rAng”) release the set key ,now you can view the para. value by pressing the “Set” key again and edit the value by UP/DN keys. Or use UP/DN keys to choose another parameter and view or edit it’s value. To return to normal mode ,power the unit off and on again . If untouched the unit will return to normal mode after timeout.

Table 1 shows available parameters and corresponding possible values.

Para.	Possible value
Set.L.	LL...UL bar
Set.H.	LL...UL bar
d.t.	0...99.9 sec.
rAng	0...1000 bar
UL	0...rAng bar
LL	0 ...rAng bar
OFS	-50...+50 bar

Parameter description.

Set.L. : (Set Low limit) pressure low limit set point.
Set.H. : (Set High limit) pressure high limit set point.
d.t. : (Delay time) Delay time for relay 1 activation.
rAng : (Range) Max expected range of the sensor.
UL : (Upper Limit).Maximum limit for set point values.
LL : (Low Limit).Minimum limit for set point values
OFS : (Offset) offset for zero calibration .

General description:

When pressure stays out of “Set.L” “Set.H” boundary for a time period specified in “d.t.” parameter Relay 1 will switch on ,it will switch off if pressure returns to the boundary again.

OPTIONALparameters

The following optnal parameters are emplemented on request.
(Do not hesitatae to contact us for additional requests.)