



DITEL: PRODUCTS: DIGITAL STARS: **8001256**



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## DESCRIPTION

Series 8000 instruments can be supplied with an option for single or dual setpoint control with relay output. The setpoint value can be set anywhere within the instrument range (-1999 to +1999) via 1 or 2 visible or hidden preset switches.

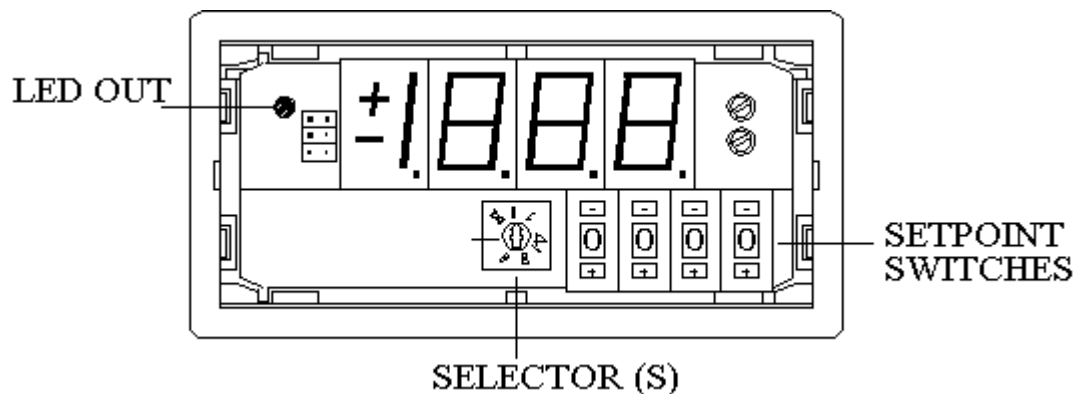
In case of visible presets, the setpoint values are programmed by means of externally accessible thumbwheel switches.

In case of hidden presets, the programming is made through rotative selectors located on the display behind lens. The leftmost digit (ñ1) is set by means of two plug-in jumpers; one for the sign (+, jumper ON) (-, jumper OFF) and the other for the value (1, jumper ON) (0, jumper OFF).

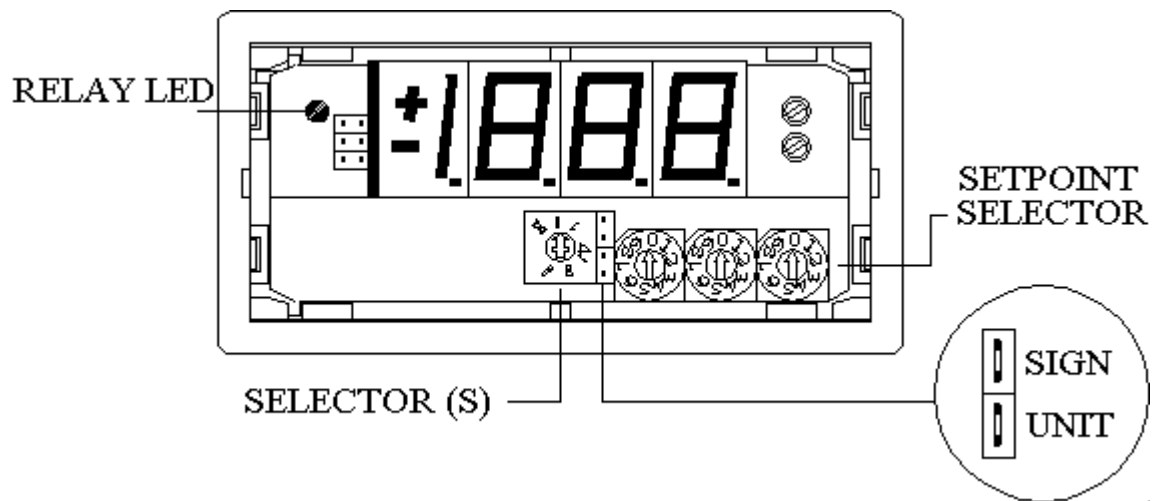
All the alarm parameters are configurable from the front-panel ; time delays (from 0 to 15 seconds) or hysteresis levels (from 0 to 10 counts of display) may be selected by a rotative selector-switch (S) accessible behind lens. Dual-preset instruments can be configured for two modes of operation (MIN/MAX or MAX1/MAX2) as shown next page.

## RELAY CONTACTS

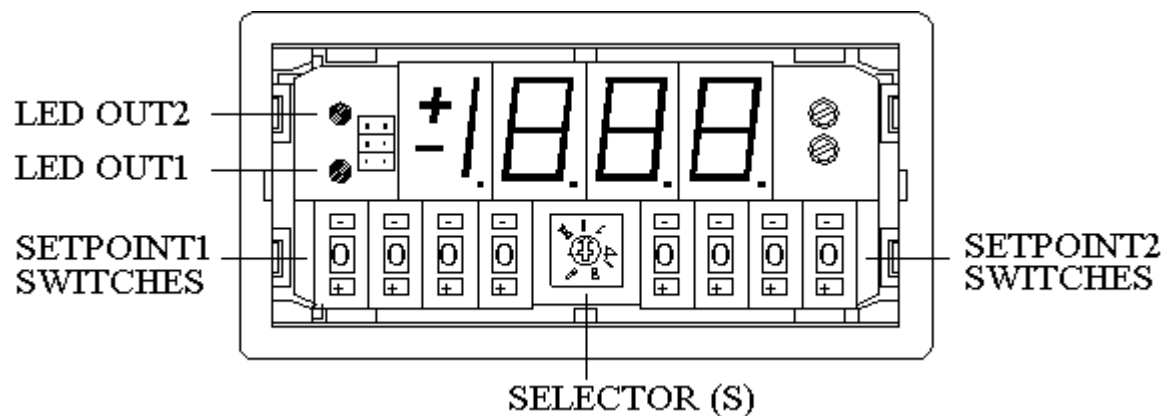
### SERIES 8001 - 1 VISIBLE PRESET



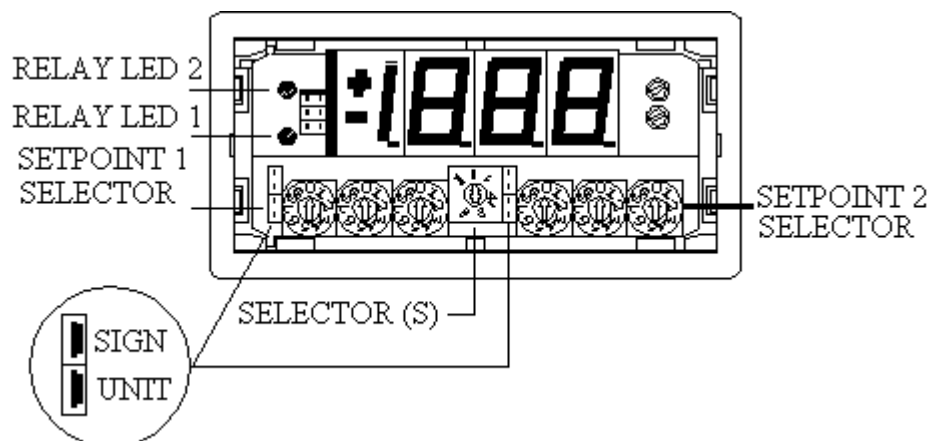
### SERIES 8005 - 1 HIDDEN PRESET



### SERIE 8002 - 2 VISIBLE PRESETS



### SERIE 8006 - 2 HIDDEN PRESETS

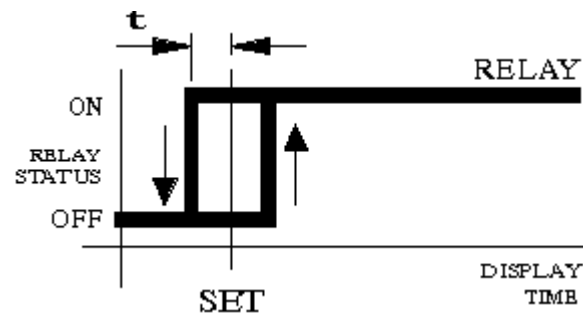


### SINGLE-PRESET OPERATING MODE

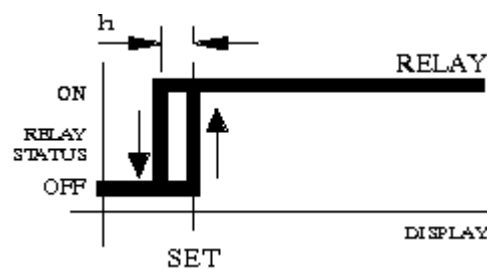
The relay remains deenergized (OFF STATUS) as long as the display value stays below the setpoint.

The relay activation (ON STATUS) takes place when the display value rises above the programmed setpoint value.

### Time delay operation



### Hysteresis operation



## DUAL-PRESET OPERATING MODES

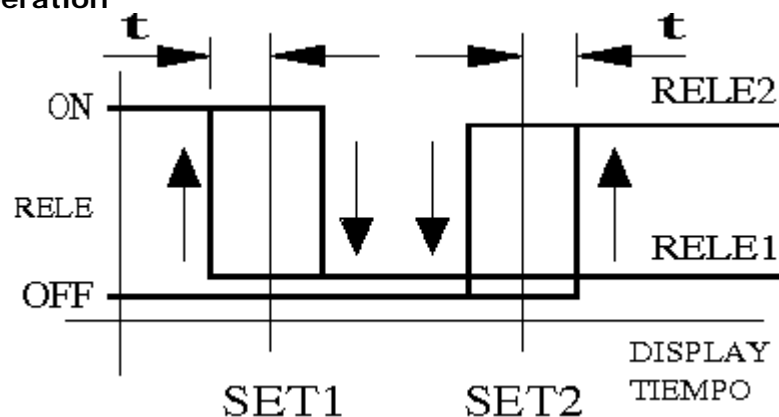
### MODE MINIMUM/MAXIMUM

Both relays 1 and 2 remain deenergized as long as the display value stays between the setpoints 1 and 2.

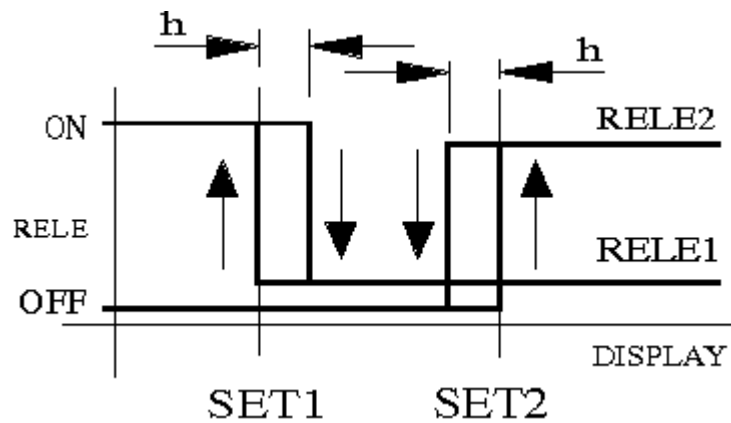
The relay 1 activates when the display value falls below the setpoint 1.

The relay 2 activation takes place when the display value rises above the setpoint 2.

### Time delay operation



### Hysteresis operation



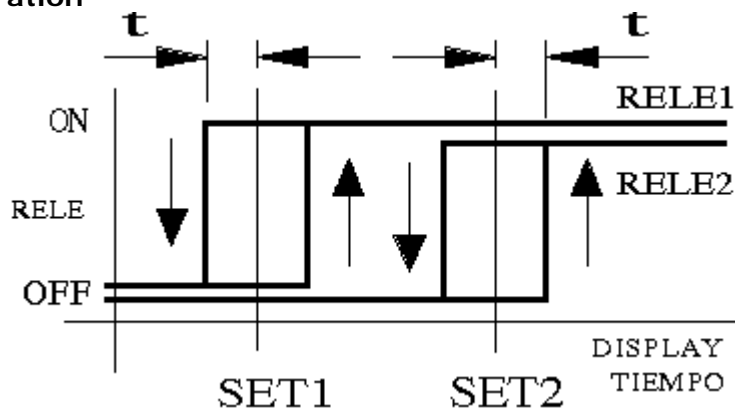
### MODE MAXIMUM1/MAXIMUM2

Both relays 1 and 2 remain deenergized as long as the display value stays below the values programmed for the setpoints 1 and 2.

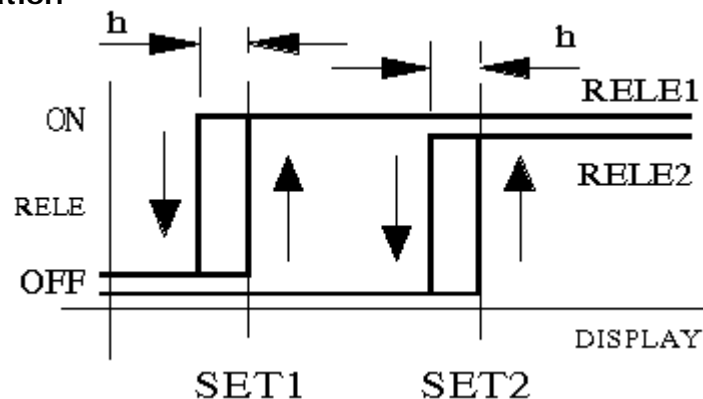
The relay 1 activation takes place when the display reaches the setpoint 1.

The relay 2 activates when the setpoint 2 is reached.

### Time delay operation



### Hysteresis operation



### DELAY/HISTERESIS - 1 PRESET

It is possible to configure the relay output to activate/deactivate at a time delay of up to 15 seconds or at a distance of up to 10 counts from the setpoint which effect is shown in the diagrams at left.

The switching mode (time delay or hysteresis), and delay/hysteresis levels may be selected by placing the selector (S) to the adequate position according to the table.

In case of single-preset instruments, select one of the first eight positions (corresponding to the MIN/MAX mode).

## DELAY/HISTERESIS - 2 PRESETS

For the dual-preset versions, the selector (S) is also used to determine the relays' operating mode.

Select one of the first eight positions (from 0 to 7) for the relays to operate in mode MIN/MAX and one of the last eight positions for operation in mode MAX1/MAX2 according to the table.

SELECTOR (S)	DELAY/HYST.	MODE
0	Immediate	MIN - MAX
1	1 second	
TIME DELAY 2	2 seconds	
3	5 seconds	
4	15 seconds	
5	2 L.S.D.	MAX1 - MAX2
HYSTERESIS 6	5 L.S.D.	
7	10 L.S.D.	
8	Immediate	
9	1 second	
TIME DELAY A	2 seconds	
B	5 seconds	
C	15 seconds	
D	2 L.S.D.	
HYSTERESIS E	5 L.S.D.	
F	10 L.S.D.	

NOTE: Remove power before changing the selector position.

### Warranty:

Press the icon to see it.



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