DITEL: PRODUCTS: DIGITAL STARS: **7004**

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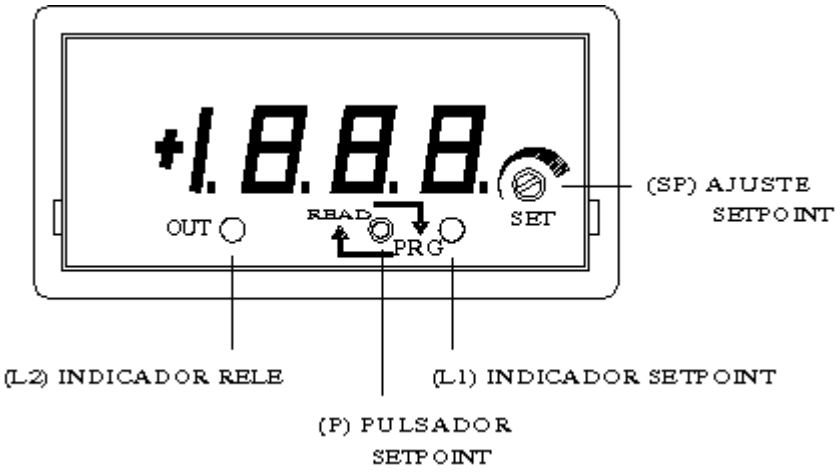
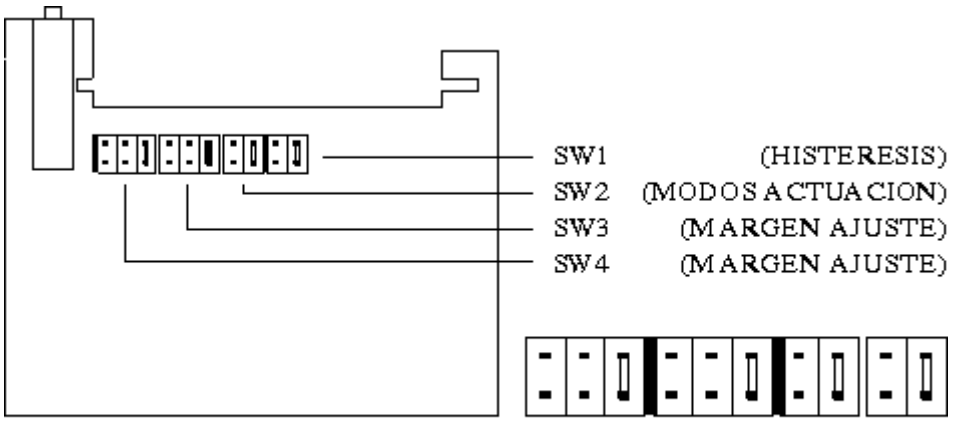
SETPOINT ADJUST

Series 7000 indicators provide one analog setpoint with SPDT relay output rating 8A @ 250VAC or 8A @40VDC.
The setpoint value is screwdriver adjustable via the SP potentiometer over the entire range of display (-1999 to +1999) or over narrower ranges as selected by plug-in jumpers.
One frontal pushbutton (P) allows display of either the setpoint (programming mode) and the input parameter (reading mode).
Either value remains displayed unless the P button is newly depressed.
The programming mode is acknowledge by the led L1 (setpint indication).
The relay status is controlled by the led L2.

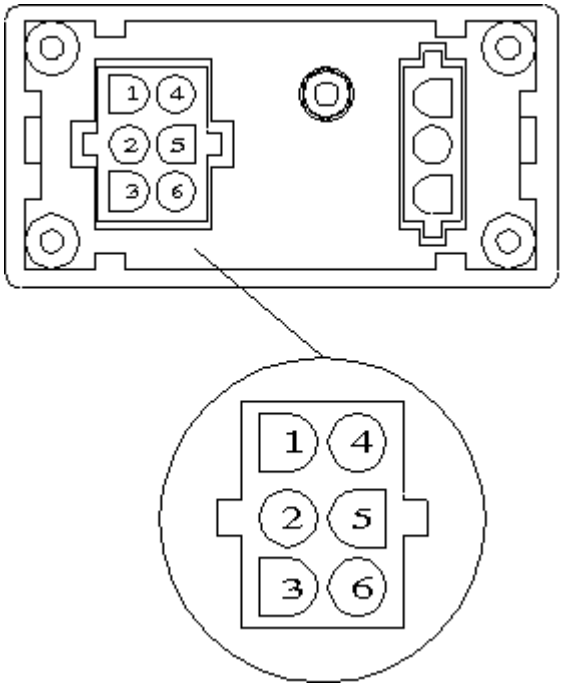


CONFIGURATION

The alarm functions (adjustment margins, operating mode, hysteresis) are fully configurable by means of plug-in jumpers located at the setpoint card and accssible by lifting out the electronics from the case.



POWER AND RELAY CONNECTION

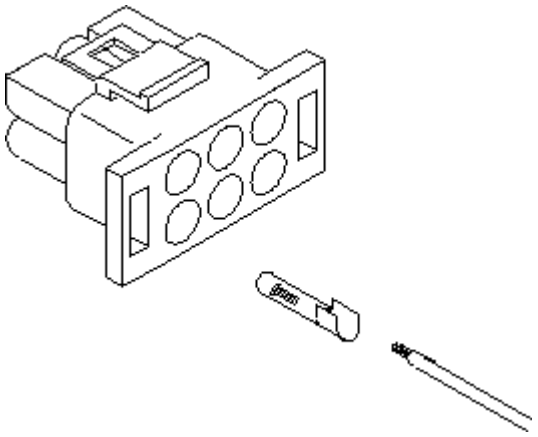


AC power supply
PIN 4 - AC HI
PIN 6 - AC LO

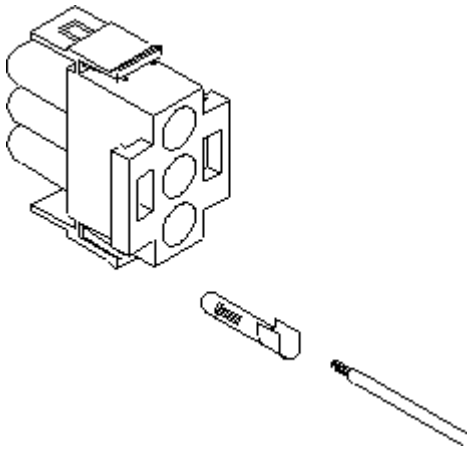
DC power supply
PIN 4 - DC Positive
PIN 6 - DC Negative

Relay contacts
PIN 7 - OFF (normally closed)
PIN 8 - Common
PIN 9 - ON (normally open)

CONNECTORS

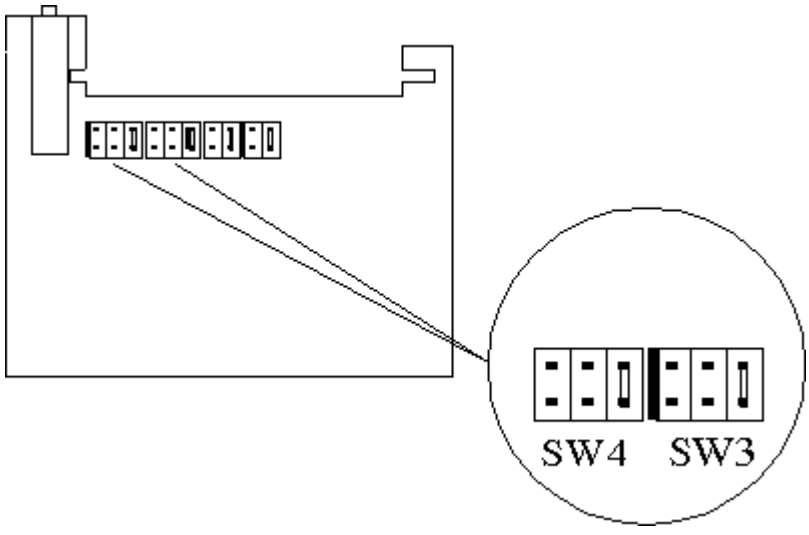


Input signal and power supply:
6-pin MAT-N-LOCK AMP connector



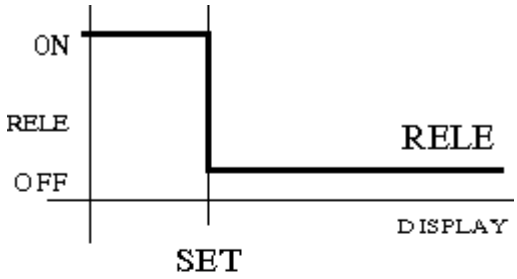
Relay contacts:
3-pin MAT-N-LOK AMP connector

SETPOINT ADJUSTMENT MARGIN

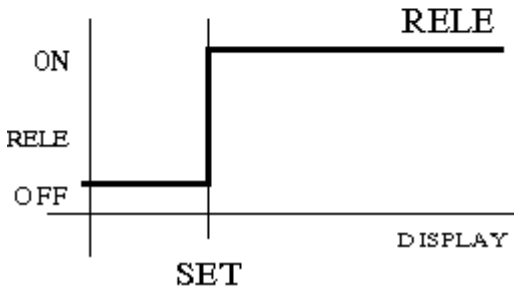


CONTROL MODES

MODE MAXIMUM
The relay activates when the display value rises above the programmed setpoint.

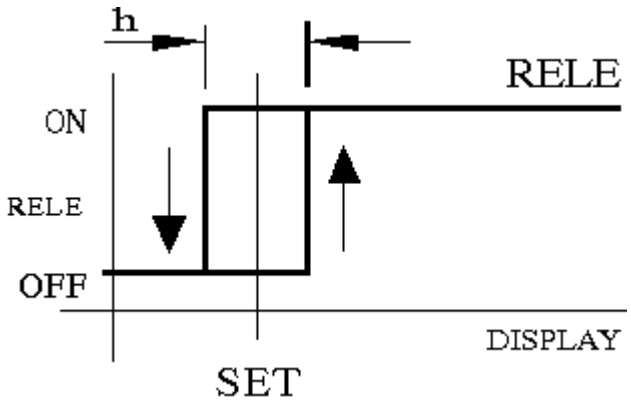


MODE MINIMUM
The relay remains energized as long as the display value stays below the programmed setpoint and deactivates when reaching the setpoint.



SWITCHING HYSTERESIS

It is possible to select between two hysteresis levels:
minimum = 1 count of display (±½)
maximum = 9 counts of display (±4½)
Hysteresis operates at both sides of the setpoint. When operating with hysteresis levels of 9 counts, the relay activates 4 or 5 counts above the setpoint and deactivates 4 or 5 counts below.



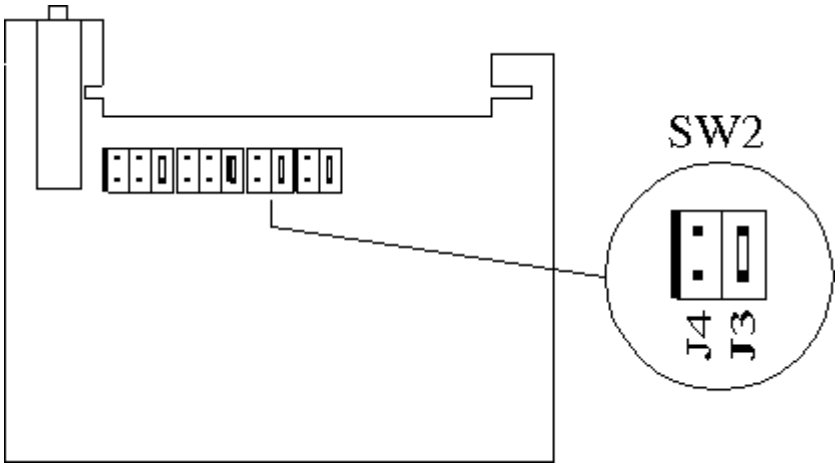
In order to achieve better precision at the time of setpoint adjust, it is possible to adapt the SP potentiometer margin so that it fits the margin within the instrument operates normally. Place the jumpers SW3 and SW4 as indicated in the table.

SW3 AND SW4	ADJUSTMENT MARGIN
	0 to + 1999
J5 + J8	0 to + 1400
J5 + J9	-400 to + 1999
J6 + J8	-1000 to + 1000

J6 + J9	-1400 to 0
J6 + J10	-1999 to +1999
J7 + J8	-1999 to +400
J7 + J9	-1999 to 0
J7 + J10	

CONTROL MODE SELECTION

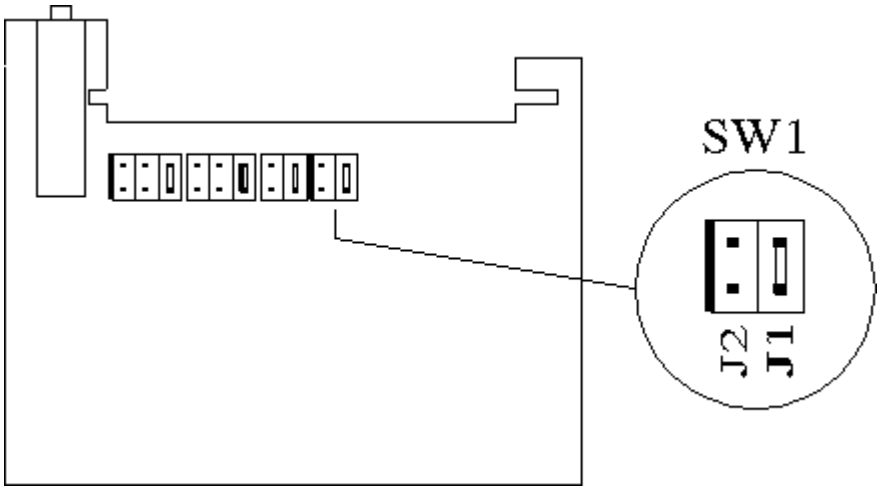
To change the control mode, perform the jumper wiring of group SW2 as indicated in the following figure:



HYSTERESIS LEVEL SELECTION

Unless customer specification, the instruments are shipped factory-set for operation with hysteresis level of 1 count.

To change the hysteresys level, plug in the suitable jumper of group SW1 as shown in the figure.



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