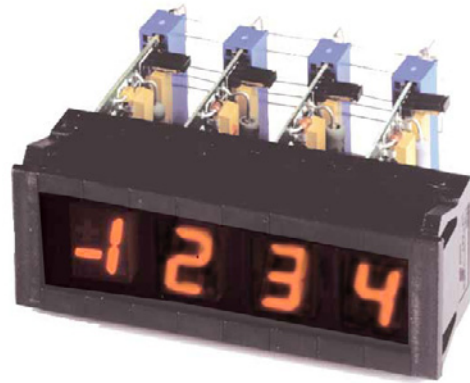


# Series R

## Modular panel meters



**Model R117A**

**Parallel BCD modular**

*Modular panel meters controlled with parallel BCD signals, positive and negative logic. Modules with 1 digit which can be coupled together to obtain the desired number of digits. Reduced sized. Standard 14mm digit size. Powered 24 Vdc. "Hold" control for multiplexing, decimal point and "Blank" function to power-off the display.*

# Panel meter R117A

## Modular panel meter for parallel BCD signals

Modular panel meter, accepts parallel BCD signal to control 1 seven segment digit. Available visualizations are 0,1,2,3,4,5,6,7,8 and 9. Decimal point is controlled through an independent control line.

Instrument with modular architecture, several R117A displays can be coupled together to build multiple digit structures. Each digit of the structure maintains its own connections independently.

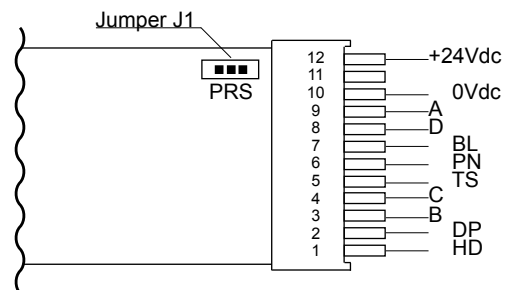
Empty housings are available to generate free spaces between digits. Instruments are finalized with side covers to close the instrument. All instruments are provided with a red front filter.

Instruments are 24Vdc power. Operation can be selected for both positive and negative logic. Accepts NPN and PNP signals. Available controls for "Hold" function to block the display, "Blank" function to power-off the segments of the digit and "Test" function to power-on all segments.

### Technical Data

<b>Digits</b>	1
Type	7 segments, red
Height	14 mm (0.56")
Display	0,1,2,3,4,5,6,7,8,9
Decimal point	Controlled by connection of pin2 to positive
<b>Signal Accepted</b>	BCD Parallel
Logic	Positive or negative (depends on polarization of pin 6)
Signal type	NPN or PNP (depends on selection of J1)
Logical Level "0"	from 0 to 6.4 Vdc
Logical Level "1"	from 6.6 to 24 Vdc
Current	0.32mA each input (at 24V)
Overshoot	maximum 60V (10mSec.)
<b>Power</b>	24 Vdc $\pm$ 10%
Max. inverted voltage	60Vdc
Consumption	<450mW
<b>Functions available</b>	
Hold	display reading remains blocked and changes on line ABCD are not updated on the display.
Test	activates all segments
Blank	powers-off all segments
<b>Mechanical</b>	
Mounting	panel
Connections	connections on rear terminal, by soldering
Weight	25 grams
Housing material	Noryl black

### Connections



### Control for Decimal Point (DP / pin 2)

Decimal point is controlled through pin 2 "DP". Connect "DP" to 24V to power-on the decimal point..

### Function "Hold" (HD / pin 1)

Pin1 to "1" activates the display Hold  
Pin1 to "0" the display updates continuously

The instrument may need up to 100mSec. to fully activate a change on the "Hold" signal.

### Function "Blank" (BL / pin 7)

Pin7 to "0" powers-off all segments on display  
Pin7 to "1" normal operation of segments

### Function "Test" (TS / pin 5)

Pin5 to "0" powers-on all segments on display  
Pin5 to "1" normal operation of segments

### Selection of Logic (PN / pin 6)

The instrument can operate both in positive and negative logic. To configure the logic, polarize pin 6 as explained below :

Positive Logic      Pin 6 to 0V  
 Negative Logic     Pin 6 to +24V

Selected logic affects to ABCD signals. Control signals DP, HD, BL y TS are independent of the logic selected.

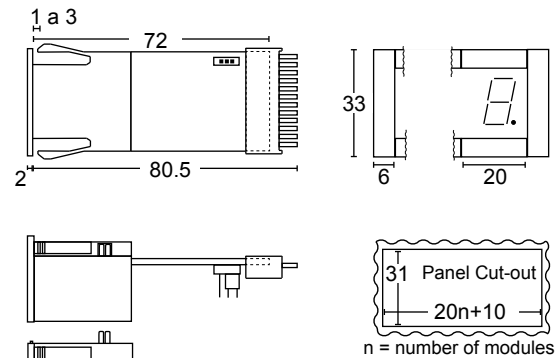
### Selection of NPN or PNP

Select jumper J1 to the required position, as explained below:

PR            NPN  
 RS            PNP

Selection affects to all signals ABCD, HD, BL and TS

### Mechanical Dimensions (mm)



### Table of Truth - Positive Logic

A	B	C	D	HD	BL	TS	DISPLAY
0	0	0	0	0	1	1	0
0	0	0	1	0	1	1	1
0	0	1	0	0	1	1	2
0	0	1	1	0	1	1	3
0	1	0	0	0	1	1	4
0	1	0	1	0	1	1	5
0	1	1	0	0	1	1	6
0	1	1	1	0	1	1	7
1	0	0	0	0	1	1	8
1	0	0	1	0	1	1	9
1	0	1	0	0	1	1	---
1	0	1	1	0	1	1	---
1	1	0	0	0	1	1	---
1	1	0	1	0	1	1	---
1	1	1	0	0	1	1	---
1	1	1	1	0	1	1	---
x	x	x	x	1	1	1	Function "Hold"
x	x	x	x	x	0	1	Function "Blank"
x	x	x	x	x	x	0	Function "Test"

### Table of Truth - Negative Logic

A	B	C	D	HD	BL	TS	DISPLAY
1	1	1	1	0	1	1	0
1	1	1	0	0	1	1	1
1	1	0	1	0	1	1	2
1	1	0	0	0	1	1	3
1	0	1	1	0	1	1	4
1	0	1	0	0	1	1	5
1	0	0	1	0	1	1	6
1	0	0	0	0	1	1	7
0	1	1	1	0	1	1	8
0	1	1	0	0	1	1	9
0	1	0	1	0	1	1	---
0	1	0	0	0	1	1	---
0	0	1	1	0	1	1	---
0	0	1	0	0	1	1	---
0	0	0	1	0	1	1	---
0	0	0	0	0	1	1	---
x	x	x	x	1	1	1	Function "Hold"
x	x	x	x	x	0	1	Function "Blank"
x	x	x	x	x	x	0	Function "Test"

# other products



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Standard 96x48



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Panel Meters  
Miniature 48x24 mm



Large Displays  
60 & 100 mm digit



Signal Converters  
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Panel Meters  
Standard 96x48mm

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