

Series RD

Panel meters for parallel BCD code

RD50	5 digits
RD40S	4 digits and negative sign
RD40	4 digits
RD30S	3 digits and negative sign
RD30	3 digits
RD20S	2 digits and negative sign
RD20	2 digits



IDEAL SOLUTION to control the display of 2, 3, 4 or 5 digits via parallel BCD code, with positive logic. Optional negative sign and decimal point selectable. Included «Hold» function for multiplexation of control signals. Multiple power options available.

Series RD

Panel meters for parallel BCD code

Panel meters with parallel BCD code control, with 5, 4, 3 or 2 digit formats, with optional negative sign. Decimal point fixed, selectable by solder jumpers. Independent «HOLD» control for each digit, allows multiplexation of the BCD code control signals. All instruments accept different power options both in AC and DC. The instrument includes both male and female connectors.



GENERAL SPECIFICATIONS

DISPLAYS	Led 7 Segmento red color
DIGIT HEIGHT	14 mm
NUMBER OF DIGITS	5, 4, 3, 2 depends on model
POLARITY	«-» depends on model
DECIMALS POINT	jumper selectable

INPUT SIGNAL	Parallel BCD
LÓGIC TYPE	Positive
SIGNAL LEVELS	
«1»	5 Vdc, 12 Vdc or 24 Vdc
«0»	< 3 Vdc

CONSUMPTION PER INPUT	570 uA at 24 Vdc
	212 uA at 12 Vdc
	38 uA at 5 Vdc

HOLD	Independent for each digit
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WORKING TEMP.	0 °C to +50 °C
STORAGE TEMP.	-40 °C to +80 °C

HOUSING	DIN 43700
DIMENSIONS	96 x 48 mm (1.89 x 3.78")
PANEL CUT-OUT	44.5 x 92.5 mm (3.64x1.75")
WEIGHT	310 gr
CONNECTIONS	SUB-D 37 pin Male Female terminal included
POWER TERMINALS	Plug-in screw clamps

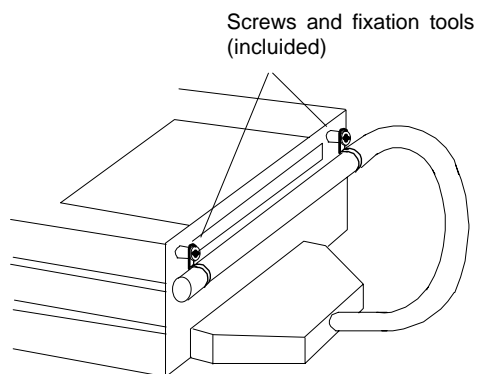
CONSUMPTION	5.5 VA in AC
	3.5 W in DC

POWER OPTIONS

The RD instruments allow different power options, both in AC and DC. The instrument does not have fuse protection. The value and type of the recommended protection fuses is indicated below for each power type.

Ref.	Power	Recommended Fuse
«0»	230 Vac 50/60 Hz	50 mA Time Lag
«1»	115 Vac 50/60 Hz	100 mA Time Lag
«2»	24 Vac 50/60 Hz	300 mA Time Lag
«3»	48 Vac 50/60 Hz	150 mA Time Lag
«6»	24 Vdc (15/30 Vdc Isolated)	350 mA Fast Fuse
«8»	48 Vdc (24/65 Vdc Isolated)	200 mA Fast Fuse

FIXATION OF THE SUB-D CONNECTOR



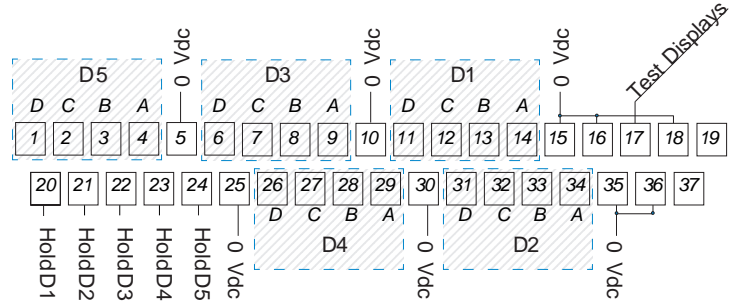
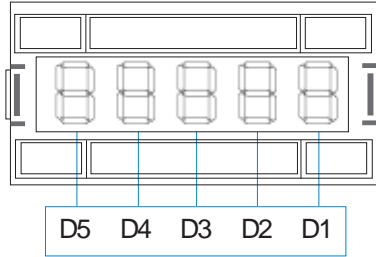
NOTE: To avoid damages on the connectors and the printed circuit board, do not let the weight of the cables fall free onto the connectors. It is recommended to fix the cables to the housing as indicated in the image above, using the tools provided with the instrument.

ORDERING REFERENCE

Model	Power
RD -	-
50	0
40S	1
40	2
30S	3
30	6
20S	8
20	

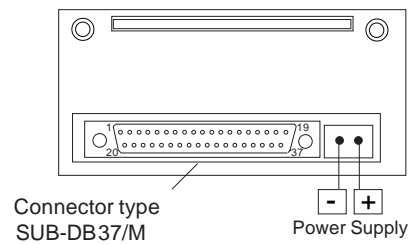
GENERAL FRONT VIEW AND REAR CONNECTIONS

The connections indicated are for the 5 digit instrument, and each digit is labeled with D5, D4, D3, D2 and D1 based on its position. For units with negative sign, all BCD codes that will light the central segment of the 7 segment display, will light the sign.



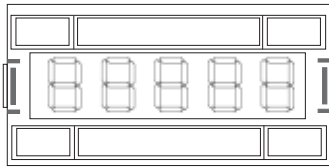
Function «HOLD» : Each digit has an independent terminal assigned to control its «Hold» function. This «Hold» function is aimed to multiplex the BCD data channels of the 5 digits. The «Hold» function is activated by changing its logical state from «0» to «1». If the «Hold» function is deactivated («0») the display will visualize continuously the data received.

Function «TEST DISPLAYS» : This function tests the functionality of the segments of the displays. It activates when connecting terminal 17 to negative («0»). All displays will light all the segments.



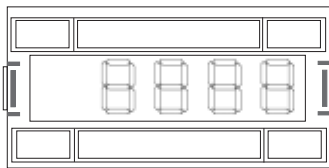
FRONTAL VIEW PER MODEL

RD50/A



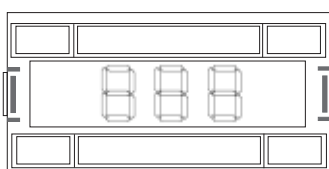
D5= TENS OF THOUSANDS
D4= THOUSANDS
D3=HUNDREDS
D2= TENS
D1= UNITS

RD40/A



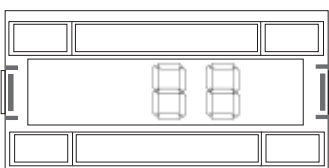
D5 = [Not available]
D4= THOUSANDS
D3=HUNDREDS
D2= TENS
D1= UNITS

RD30/A



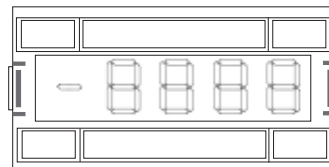
D5 = [Not available]
D4=HUNDREDS
D3= TENS
D2= UNITS
D1 = [Not available]

RD20/A



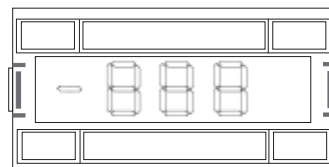
D5 = [Not available]
D4 = [Not available]
D3= TENS
D2= UNITS
D1 = [Not available]

RD40/A-S



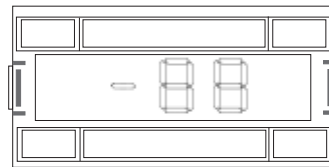
D5= NEGATIVE SIGN
D4= THOUSANDS
D3=HUNDREDS
D2= TENS
D1= UNITS

RD30/A-S



D5= NEGATIVE SIGN
D4=HUNDREDS
D3= TENS
D2= UNITS
D1 = [Not available]

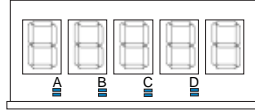
RD20/A-S



D5 = [Not available]
D4= NEGATIVE SIGN
D3= TENS
D2= UNITS
D1 = [Not available]

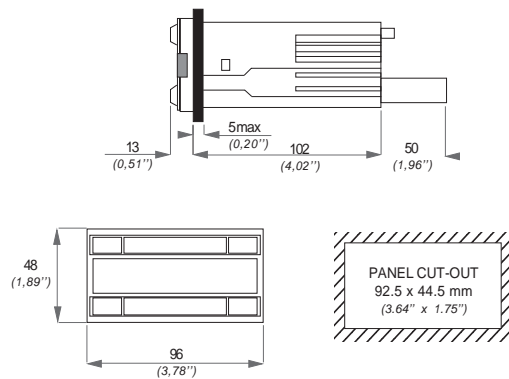
FIGURE1 - DECIMAL POINT SELECTION

Select the decimal point to light by shortcircuiting the solder jumpers indicated below. To access the jumpers take out the instrument from the housing and unlock the front side.



- A = X . XXXX
- B = XX . XXX
- C = XXX . XX
- D = XXXX . X

FIGURE2 - SIZES in mm (inches)



CE DECLARATION OF CONFORMITY

Manufacturer.- **FEMA ELECTRÓNICA, S.A.**
 Address.- Pol. Ind. Santiga - Altimira 14 (T14 - N2)
 E-08210 Barberà - BARCELONA
 ESPAÑA - SPAIN

Conforming Products
 Series .- RD
 Models .- 50, 40S, 40, 30S, 30, 20S, 20

We hereby declare that the above products conform to the essential protection requirements of Directives and Harmonised Standards stated below.

DIRECTIVES

EUROPEAN DIRECTIVE FOR LOW VOLTAGE D73/23/CEE AMMENDED BY D93/68/CEE. Equipments powered from 50 to 1000 Vac. and/or from 75 to 1500 Vdc.

ELECTROTECHNICAL REGULATION FOW LOW VOLTAGE (RBT) ITC21, ITC29, ITC35. Equipments with power wupply lower than 50 Vac and/or 75Vdc.

EUROPEAN DIRECTIVE FOR ELECTROMAGNETIC COMPATIBILITY D89/336/CEE AND AMMENDED BY D93/68/CEE

STANDARDS

IMMUNITY	ELÉCTRICAL SAFETY
UNE EN 50082-2 (1997)	UNE EN 61010-1 (1997)
	UNE EN 60204-1 (1998)
EMISSIONS	Signed .- D. Juncà
UNE EN 50081-2 (1994)	Position .- Quality Manager
	Barberà, 2005