

Series MAG-BAR

Bar meters 96x48 mm

USER'S MANUAL
(1181R02)



Model MAG-BAR signals in Vdc and mA

Model MAG-BAR2 signals in Vdc and mA, with 2 alarms

Bar meters for process signals in mA and Vdc, active and monopolar. Display with 30 segments in red or green, with control for span and offset through potentiometers. Instrument with or without alarm relay outputs. Multiple power options in AC and DC. Format 96x48 mm.

MAG-BAR and MAG-BAR2

Bar meters 96x48mm for process signals

Panel meters with bar format display, for process signals in mA and Vdc. The instruments do not include excitation voltage for the transducer.

Instrument without alarm relay outputs (MAG-BAR) or with 2 alarm relay outputs (MAG-BAR2). Multiple power options in AC and DC.

Display with 30 segments in red or green color, with visualization from 0 to 100% for horizontal or vertical mounting. Span and offset adjustment with potentiometers accessible at the front of the instrument. Input signal range selection with internal solder jumpers.

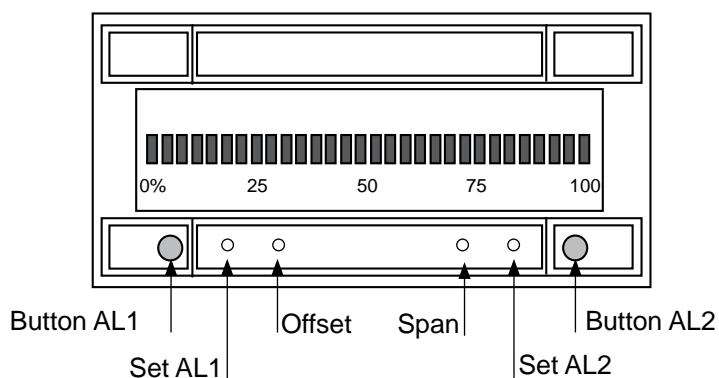
Housing in 96x48mm format. Excelent visibility with high quality leds and antirreflexive front filter. Easy panel fixation. Connection with plug-in screw terminals at the rear of the instrument.

Order Reference

Series	Model	Power	Color	Mounting	Signal
MAG	BAR	0	R	V	(4/20mA)
	BAR BAR2	-0 (230 Vac) -1 (115 Vac) -2 (24 Vac) -3 (48 Vac) -6 (15 to 30 Vdc isolated) -8 (24 to 65 Vdc isolated)	-R (red) -G (green)	-V (vertical) -H (horizontal)	-4/20 mA -0/10 Vdc -0/20 mA ...

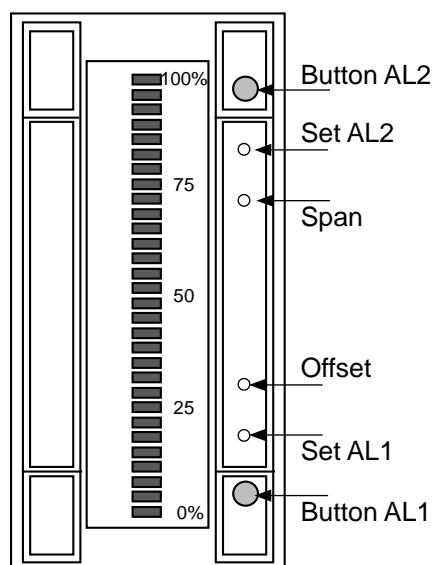
Front View

Front View
MAG-BAR Horizontal



Press "AL1" to visualize the setpoint for Alarm1. Maintain "AL1" pressed and operate potentiometer "Set AL1" to modify the setpoint for Alarm1. Alarm1 controls the state of Relay1. Same procedure for Alarm2

Front View
MAG-BAR Vertical



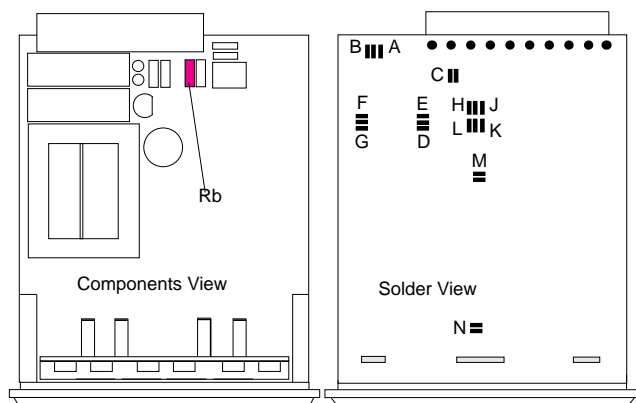
Technical Data

Display	30 segments
Color	red or green
Signals	mA and Vdc
Accuracy	±1 segment
Relays	contact
Maximum voltage	250Vac
Maximum current	2A (non inductive)
Mounting	panel
Connections	plug-in screw terminal
Weight	<100 grams
Housing material	ABS, Polycarbonate
Operating Temp.	from 0 to 50°C
Storage Temp.	from -20 to +85°C
Warm-up	15 minutes

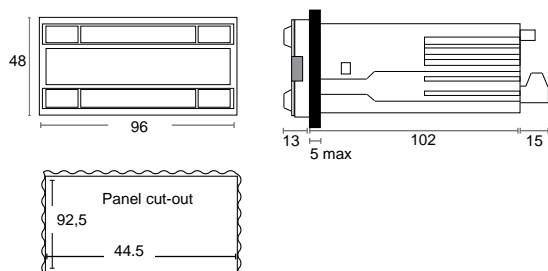
Internal Configuration

Signal	Close Jumpers	Rb
4/20 mA	A, C, N	49.9 Ohm
0/20 mA	A, C	49.9 Ohm
0/10 Vdc	A	110 K Ohm
Alarm as minimum	Close	Open
AL1	EG	DF
AL2	JL	HK
Alarm as maximum	Close	Open
AL1	DF	EG
AL2	HK	JL

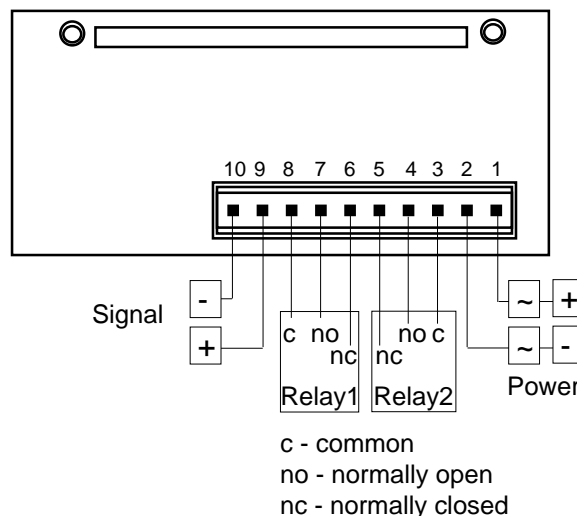
Flash - The activation of the alarm will make the display to flash. To deactivate the flash function, open jumpers F, G, K and L



Mechanical Dimensions (mm)



Connections



Precautions on installation

Installation of this instrument must be performed by qualified personnel only. Disconnect the instrument from power before starting any maintenance and / or installation action. The instrument does not have a general switch and will start operation as soon as power is connected. The instrument does not have protection fuse, the fuse must be added during installation. Recommended fuse values are 100mA at 115 Vac, 50mA at 230Vac. The instrument is designed to be panel mounted.

Maintain clean by using a humid rag and do NOT use abrasive products such as alcohols, solvents, etc. Before proceeding to the power connection, verify that the voltage level available matches the power levels indicated in the label on the instrument.

CE Declaration of conformity

Manufacturer FEMA ELECTRÓNICA, S.A.
Pol. Ind. Santiga - Altimira 14
E-08210 - Barberà del Vallès - BARCELONA
ESPAÑA - SPAIN
www.fema.es - info@fema.es

Products - MAG-BAR, MAG-BAR2

The manufacturer declares that the instruments indicated comply with the directives and rules indicated below.

Directive for low voltage D73/23/CEE modified by D93/68/CEE
Electrotechnical regulation for low voltage ITC 21, ITC 29, ITC 35.
European directive for electromagnetic compatibility D89/336/CEE and modification D93/68/CEE

Security 61010-1 (1998)
Emission 50081-1 (1994)
Immunity 50082-1 (1998)

Barberà del Vallès October 2001
Daniel Juncà - Quality Manager