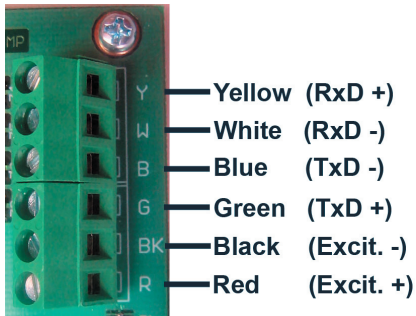


6. CONNECTION SYSTEM

• Load cell power supply and RS-485 connection

– The connection system is the following:



ACC. 89091

RS-485 / RS-232 CONVERTER



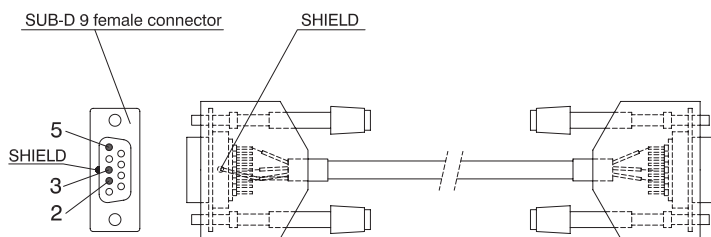
OPERATION MANUAL

5

rev.2 (10/06)

• PC connection (RS-232)

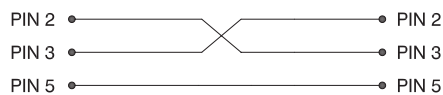
The connecting cable may have a maximum length of 15 m.



WELDING'S SIDE VIEW

SUB-D 9 female connector
PC

SUB-D 9 female connector
ACC. 89091

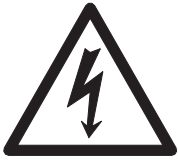


WELDED TO SUB-D 9 BODY

Técnicas de electrónica y automatismos, S.A.
C/ ESPRONCEDA 176-180, 08018 BARCELONA-SPAIN
TEL.: (+34) 93 498 44 65 FAX: (+34) 93 308 69 93

6

1. SAFETY PRECAUTIONS



WARNING-SHOCK HAZARD

This device should be installed or opened only by qualified personnel. Unplug the device from electric outlet before opening it.



CAUTION

The integrated circuits in ACC. 89091 are sensitive to electrostatic discharge (ESD). Be sure to follow proper procedures for transporting, storing and handling ESD-sensitive components

2. CLEANING

- Disconnect the converter from the power supply.
- Clean the converter with a clean and dry cloth.



- Never use alcohol or solvents to clean the converter. These chemical products could damage it.
- Make sure that water does not enter the converter. It could damage electronic components.

1

• Power

Network connection: 100-240 VAC 50/60 Hz
Power supply: 18 V DC / 1.4 A

• Working conditions

Temperature range: -10°C / +40°C
Temperature limits: -25°C / +70°C

• Mechanical data:

Size: 130x100x30 mm

4. OPERATION

– Connect the load cell or junction box output cable to the RS-485 input (LOAD CELLS) according to the connecting system showed in section 6. Fix it to the box by means of the cable gland.

– Connect the RS-232 converter output to the end of the cable that corresponds with the connection system showed in section 6.

3

3. CHARACTERISTICS

• Interface

The converter has 3 leds of different colour that let us know its state. These are: power supply red led; reception yellow led; transmission green led.

• Cable specifications

MAX. CABLE LENGTH

Wire section **	Number of connected load cells				
	1	4	6	8	10
0.22 mm ²	715 m	180 m	120 m	90 m	70 m
0.25 mm ²	748 m	185 m	125 m	95 m	75 m
0.35 mm ²	> 1200 m *	280 m	185 m	140 m	110 m
0.50 mm ²	> 1200 m *	390 m	260 m	195 m	155 m
0.75 mm ²	> 1200 m *	630 m	420 m	315 m	250 m
1.00 mm ²	> 1200 m *	780 m	520 m	390 m	310 m
2.50 mm ²	> 1200 m *	> 1200 m *	> 1200 m *	950 m	760 m

* Specifications for RS-485 Bus is limited to a max. bus length of 1200 m
** Power supply wire section. Minimum RS-485 wire section 0.22 mm²

2

– The converter is powered on by connecting it to the power supply.

From now on it is ready to receive and transmit data.

5. LEDS INFORMATION

– Once connected the power supply red led lights up (POWER).

– On receiving data by the RS-485 port (load cell or junction box) the yellow led lights up.

– On transmitting data by the RS-232 port (PC) the green led lights up.

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