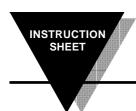


# FAR-1 Series Power Supply (10V, 250MA)



M2301/0197



### **Unpacking Instructions**

Remove the Packing List and verify that you have received all equipment, including the following (quantities in parentheses):

FAR-1 Series Power Supply (1)

Instruction Sheet (1)

If you have any questions about the shipment, please call the OMEGA Customer Service Department.

When you receive the shipment, inspect the container and equipment for signs of damage. Note any evidence of rough handling in transit. Immediately report any damage to the shipping agent.

# NOTE

The carrier will not honor damage claims unlees all shipping material is saved for inspection. After examining and removing contents, save packing material and carton in the event reshipment is necessary.

#### **Description**

Specially designed to power up to four bridges (load cells of  $350\Omega$ ) in parallel at 10Vdc. This unit used whith the CCT-80 signal conditioner accommodates 6-wire bridge circuits, where two wires provide bridge excitation, two wires sense the excitation at the bridge and the other two wires give the signal to the converter. The sensed data is used to compensate errors due to the lead resistance. If a 4-wire load cell is used, then connect terminal 5 to 6 and terminal 3 to 4.

#### Wiring

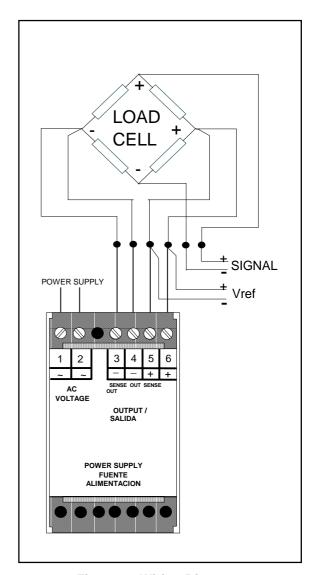


Figure 1. Wiring Diagram

#### **FAR-1 Power Supply**

**Specifications** 

**Physical Power Supply** 

: 230 or 115 Vac. ±10 % Voltage Frequency : 50/60 Hz.

Output

**Excitation Voltage** : +10 Vdc.

**Excitation Adjustment** : 6% by internal trimmer.

Maximum Current 250 mA.

Output Ripple @ I<sub>max</sub> 0.02% Tip. Load regulation : 0.1%

: 0.01 %/°C operating range Tempco

from 0 to 60°C after 30 minutes DIN Rail Mounting to DIN 46277 and DIN EN 50022

Weight:

Enclosure

**Terminals** 

Section Wire

Terminal housing

Maximum Recommended

350 gr (0.77 lb)

: Polycarbonate, RAL 7032, UL 94 V-1, light grey, IP-40

: Polycarbonate, UL 94 V-2,

dark brown, IP-20

: Sheet steel, tinned

: 4 mm<sup>2</sup>

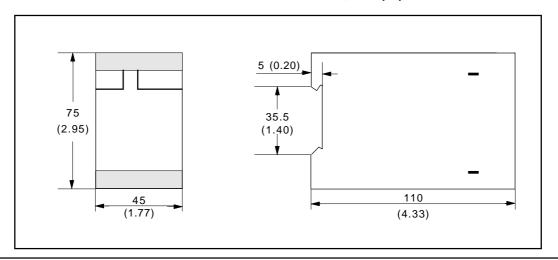
(35 x 7.6 mm) (1.38" x 0.30")

Maximum lead wire

resistance compensation : 10  $\Omega$  maximum

Storage Temperature -30° to 60°C (-22° to 176°F) **Operating Temperature** 0° to 60°C (32° to 140°F)

#### **MECHANICAL DIMENSIONS, mm (in)**



#### WARRANTY/DISCLAIMER

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of 13 months from date of purchase. OMEGA Warranty adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product. If the unit should malfunction, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective it will be repaired or replaced at no charge. However, this WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current; heat; moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear or which are damaged by misuse are not warranted. These include contact points,

OMEGA is pleased to offer suggestions on the use of its various products. However OMEGA neither assumes responsability for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA only warrants that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

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CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used in humans, or misused in any way. OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmlees from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

## **MEGA**

#### Servicing USA and Canada: Call OMEGA Toll Free USA Canada

One Omega Drive, Box 4047 976 Bergar Laval (Quebec) H7L 5A1 Telephone: (514) 856-6928 Stamford, CT 06907-0047 Telephone: (203) 359-1660 FAX: (203) 359-7700 FAX: (514) 856-6886

Sales Service: 1-800-826-6342/1-800-TC-OMEGA<sup>SN</sup> Customer Service: 1-800-622-2378/1-800-622-BEST<sup>SM</sup> Engineering Service: 1-800-872-9436/1-800-USA-WHENSM TELEX: 996404 EASYLINK: 62968934 CABLE: OMEGA

#### Servicing Europe: One OMEGA Drive, River Bend Thecnology Centre

Northbank, Irlam, Mancheste

M44 5EX, England

Telephone: 44 (161) 777-6611 FAX: 44 (161) 777-6622

#### **RETURN REQUESTS/INQUIRIES**

Direct all warranty and repair requests/inquiries to the OMEGA ENGINEERING Customer Service Department, BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

- 1. P.O. number under which the product
- was PURCHASED. 2. Model and serial number of the
- product under warranty, and Repair instructions and/or specific
- problems relative to the product.
- FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
- P.O. number to cover the COST of the
- repair,
- Model and serial number of product, and
- Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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