

OM-EL-LINK-IR

RS-232 Port Infrared Communication Module

INSTRUCTION SHEET

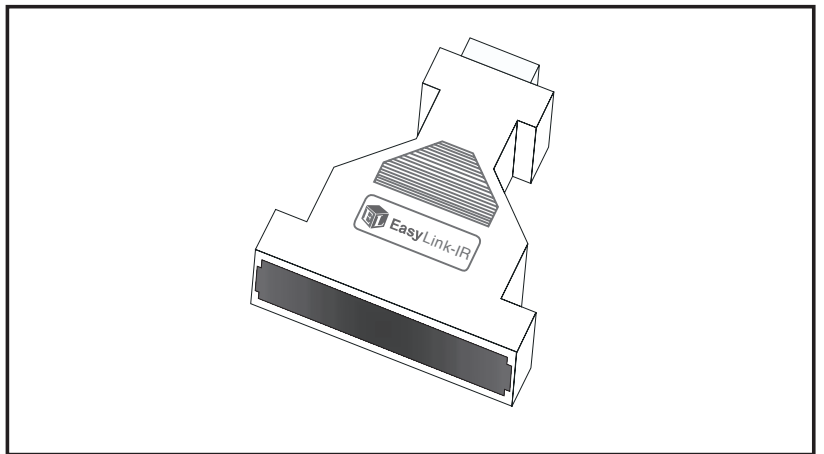
M3146/0109

Shop online at: omega.com e-mail: info@omega.com
 For latest product manuals: omegamanual.info

Part of OMEGA's range of InfraRed Products, OM-EL-LINK-IR converts RS232 data into InfraRed format. This allows an IBM compatible PC or Psion workabout to communicate with other devices without the need of a cable.

To operate, simply plug OM-EL-LINK-IR into the host's serial COM port and point at the device you wish to communicate with. OM-EL-LINK-IR requires no batteries and is powered from the host's COM port. OM-EL-LINK-IR requires no special software.

- Uses IrDA Communication Standard
- Requires no Batteries
- Replaces Cables in Most Applications
- 9600 Baud Data Transfer Rate
- CE



InfraRed Communications			Model No OM-EL-LINK-IR	
Specification	Min	Typ	Max	Unit
Data Rate		9600		bps
Communication distance	0		1	m
Communication cone		±15		°
Current consumption	2	2.3	2.5	mA

Note 1: Under normal lighting conditions.

Powering OM-EL-LINK-IR

OM-EL-LINK-IR draws its power from the handshaking lines of the host's (e.g. laptop PC's, etc.) RS232 port. In some circumstances, the computer will continue to provide power to the RS232 port, even when no programs are running. In order to maximize the host's battery life, unplug OM-EL-LINK-IR when you have finished using it.

Communication Considerations

InfraRed communications can take place at distances between 0 (i.e. "nose to nose") and 1 meter. OM-EL-LINK-IR should be pointed at the device with which it is communicating, without obstacles obscuring its line of sight. At close ranges, small obstacles will not affect the communications link. The InfraRed beam has a cone with an angle of approximately 15° so the two devices do not have to be directly aligned.

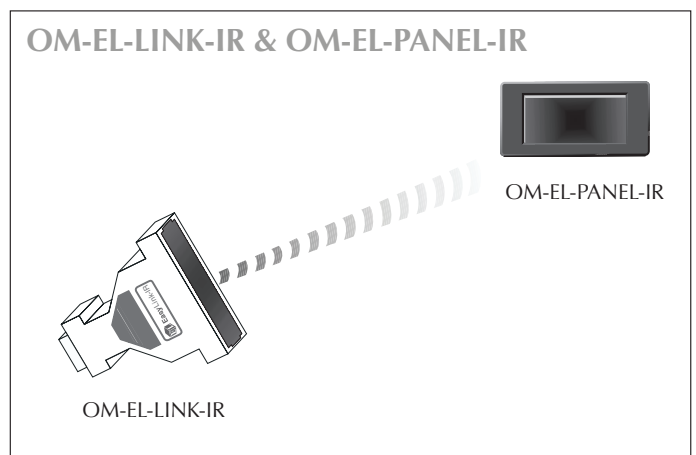
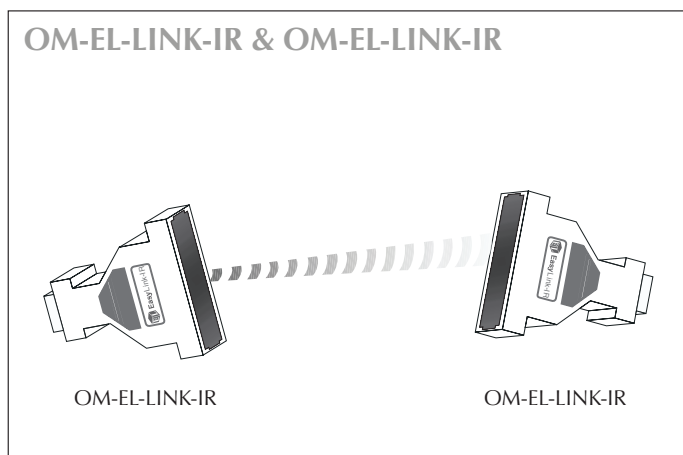
Software Considerations

OM-EL-LINK-IR will work with OM-EL-WIN data logging software. It will also work with applications where no handshaking is required.

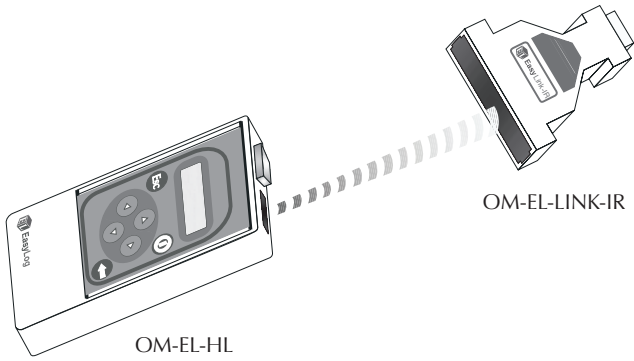
Fitting an Extension Cable

An extension cable can be added to OM-EL-LINK-IR, as long as the cable used is of the "straight through" type (i.e. no crossed wires). Both 9-way and 25-way connectors may be used. Do not use OM-EL-EASYLINK and null-modem cables.

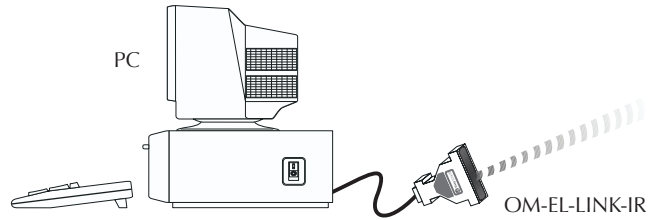
APPLICATION NOTES



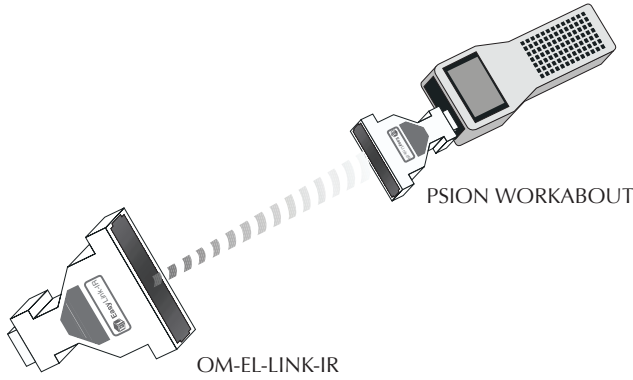
OM-EL-HL & OM-EL-LINK-IR



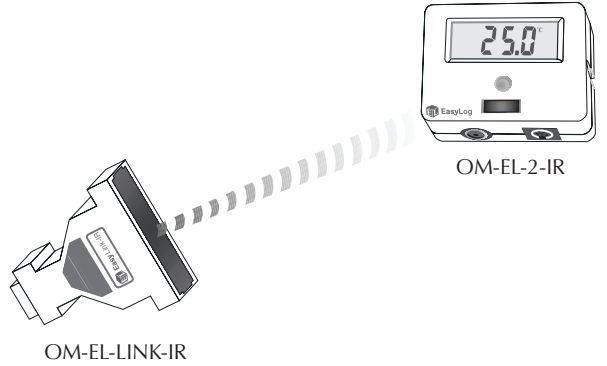
OM-EL-LINK-IR & PC



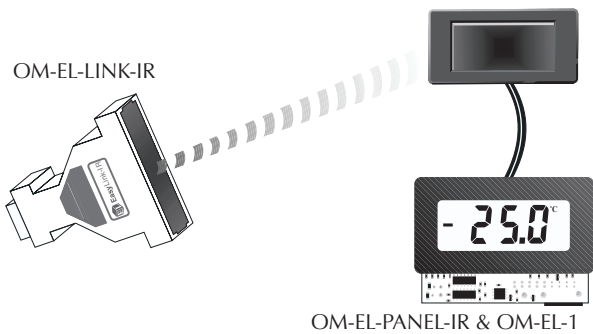
OM-EL-LINK-IR & PSION WORKABOUT



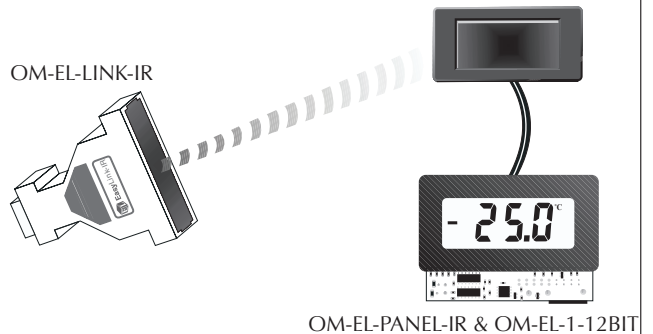
OM-EL-LINK-IR & OM-EL-2-IR



OM-EL-LINK-IR & OM-EL-1 with OM-EL-PANEL-IR



OM-EL-LINK-IR & OM-EL-1-12BIT with OM-EL-PANEL-IR



OMEGAnet® On-Line Service
omega.com

Internet e-mail
info@omega.com

Servicing North America:

U.S.A.:
ISO 9001 Certified Omega Engineering, Inc., One Omega Drive, P.O. Box 4047
Stamford, CT 06907-0047
Tel: (203) 359-1660
FAX: (203) 359-7700
e-mail: info@omega.com

Canada:
976 Bergar
Laval (Quebec), Canada H7L 5A1
Toll-Free: 1-800-826-6342
FAX: (514) 856-6886
TEL: (514) 856-6928
e-mail: info@omega.ca

For immediate technical or application assistance:

U.S.A. and Canada: Sales Service: 1-800-826-6342/1-800-TC-OMEGA®
Toll-Free: 0800 099 3344
Customer Service: 1-800-622-2378/1-800-622-BEST®
Engineering Service: 1-800-872-9436/1-800-USA-WHEN®

Mexico: En Español: 001 (203) 359-7803
info@omega.com.mx
FAX: (001) 203-359-7807
e-mail: espanol@omega.com

Servicing Europe:

Benelux: Managed by the United Kingdom Office
Toll-Free: 0800 099 3344
FAX: +31 20 643 46 43
TEL: +31 20 347 21 21
e-mail: sales@omega.nl

Czech Republic: Frýstavska 184
733 01 Karvíná, Czech Republic
Toll-Free: 0800-1-66342
FAX: +420-59-6311114
TEL: +420-59-6311899
e-mail: info@omegashop.cz

France: Managed by the United Kingdom Office
Toll-Free: 0800 466 342
FAX: +33 (0) 130 57 54 27
TEL: +33 (0) 161 37 29 00
e-mail: sales@omega.fr

Germany/Austria: Daimlerstrasse 26
D-75392 Deckenpfronn, Germany
Toll-Free: 0 800 6397678
FAX: +49 (0) 7056 9398-29
TEL: +49 (0) 7059 9398-0
e-mail: info@omega.de

United Kingdom: OMEGA Engineering Ltd.
ISO 9001 Certified One Omega Drive, River Bend Technology Centre, Northbank
Irlam, Manchester M44 5BD England
Toll-Free: 0800-488-488
FAX: +44 (0)161 777-6622
TEL: +44 (0)161 777-6611
e-mail: sales@omega.co.uk

It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification. The information contained in this document is believed to be correct, but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice. **WARNING:** These products are not designed for use in, and should not be used for, human applications.

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's 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 malfunctions, 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. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been 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 in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility 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 warrants only that the parts manufactured by the company 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. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

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 on 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 harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA 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.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

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

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. 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.

OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

© Copyright 2009 OMEGA ENGINEERING, INC. All rights reserved. This document may not be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without the prior written consent of OMEGA ENGINEERING, INC.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.