

3 YEAR
WARRANTY

MADE IN
USA

OMEGA
CARE
Extended Warranty
Program



OMEGA® User's Guide



OM-ESW-105-POE Unmanaged Industrial Ethernet POE Switch

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WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **37 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **three (3) 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, and
2. Model and serial number of the product under warranty, and
3. 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:

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.

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The information contained in this document is believed to be correct, but OMEGA 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.

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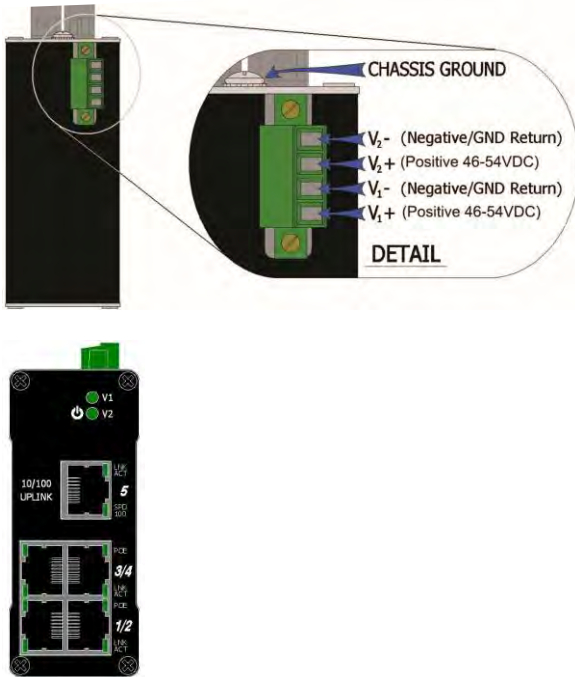
OM-ESW-105-POE Instruction Sheet

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or non-hazardous locations only.

PACKAGE CONTENTS: One OM-ESW-105-POE

UNPACKING: Remove all the equipment from the packaging, and store the packaging in a safe place. File any damage claims with the carrier.

APPLYING POWER (Top View)



LED	Color	Description
V1	Green	Valid Power (46-54 VDC) is applied.
	Red	Invalid Power (<46 VDC) is applied or Power Bus Fault detected.
	OFF	No Power is applied to the device.
V2	Green	Valid Power (46-54 VDC) is applied.
	Red	Invalid Power (<46 VDC) is applied or Power Bus Fault detected.
	OFF	No Power is applied to the device.
POE	Green	POE is being applied to the respective ports.
	Blinking	POE PD detected with improper power classification.
	OFF	No POE PD detected on the port.
LNK ACT	Green	Link with no or little activity.
	Blinking	Link with activity.
	OFF	No link established.
SPD 100	Green	100 Base
	OFF	10 Base

Unscrew & Remove the DC Voltage Input Plug from the top header.

Install the DC Power Cables into the Plug observing polarity as shown above.

Plug the Voltage Input Plug back into the top header.

Tightening torque for the terminal block power plug is **(0.22 Nm) 2 lbs/in.**

Apply power.

Note: It is only safe to turn the power on the wires after the wires have been secured to the OM-ESW-105-POE.

WARNING: Inserting the input plug while the 48VDC is applied may cause arcing, and damage the input connector permanently.

Verify the Power LED stays ON (GREEN).

Note: Either V₁ or V₂ can be connected to power for minimal operation. For redundant power operation, V₁ and V₂ plugs must be connected to separate DC Voltage sources. Use wire sizes of 10-20 gauge. The power cord should be limited to less than 10 meters in order to ensure optimum performance. For OM-ESW-105-POE use 60/75°C rated copper wire.

Note: Redundant power inputs will not balance the power loads. Only load from one power supply is used at a time.

Note: The large #6 mounting/grounding screws located on the back plate must not be longer than 1/4".

Recommended Power Supplies: DC 48V/5 Amp

WARNING – Explosion Hazard – Substitution of any component may impair suitability for Class I, Division 2.

ALERTE – Risque D’explosion – Remplacement d’un composant peut empêcher la conformité de Classe I, Division 2.

WARNING – Explosion Hazard – Do not disconnect while circuit is live unless area is known to be non-hazardous.

ALERTE – Risque D’explosion – Ne débranchez pas tant que le circuit est sous tension sauf si la zone est connue pour être non dangereux.

WARNING – Explosion Hazard – Do not replace the device unless power has been switched off or the area is known to be non-hazardous.

ALERTE – Risque D’explosion – Ne pas remplacer le dispositif que l’alimentation est coupée ou que la zone est connue pour être non dangereux.

To download the User Manual please visit the following location:

<http://www.omega.com/manuals/manualpdf/M5164.pdf>