

# FLSC-AMP-A

## Preamplifier and Signal Conditioner for Magnetic Pick-ups

**OPERATOR'S  
MANUAL**

**M1945/0603**



### General Description

The FLSC-AMP-A Signal Conditioner will amplify low level signals from magnetic pick-up sensors, such as a turbine meter or paddlewheel sensor, to an amplified high level square wave pulse output proportional in amplitude to the power supply powering the module. This output will drive any OMEGA® flow ratemeter, counter, controller or pulse input data acquisition board.

### Unpacking

Remove the Packing List and verify that you have received all equipment. If you have any questions about the shipment, please call the Customer Service Department.

When you receive the shipment, inspect the container and equipment for any 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 any claims unless all shipping material is saved for their examination. After examining and removing contents, save packing material in the event reshipment is necessary.

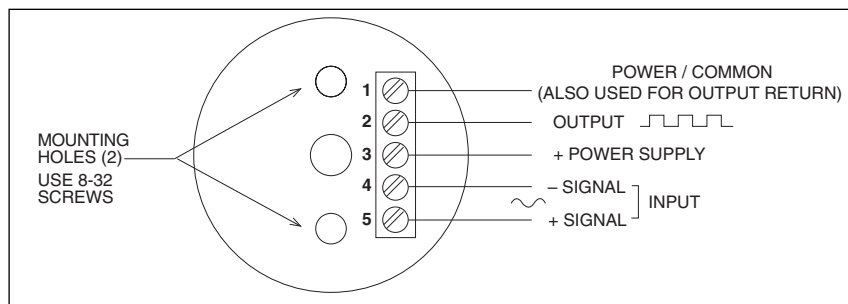
The following items are supplied in the box:

- FLSC-AMP-A Signal Conditioner
- Operator's Manual

### Hookup (Refer to Figure 1)

For electrical connections, the terminal strip will accommodate up to a 14 gauge wire. 18-20 gauge is recommended.

Note: The signal lines from the magnetic pick-up should be shielded and kept less than ten feet and away from relays, solenoids, or other sources of electrical noise. The signal shield should be connected to power/common. The module output is recommended to make long distance runs.



**Figure 1. Terminal Connections**

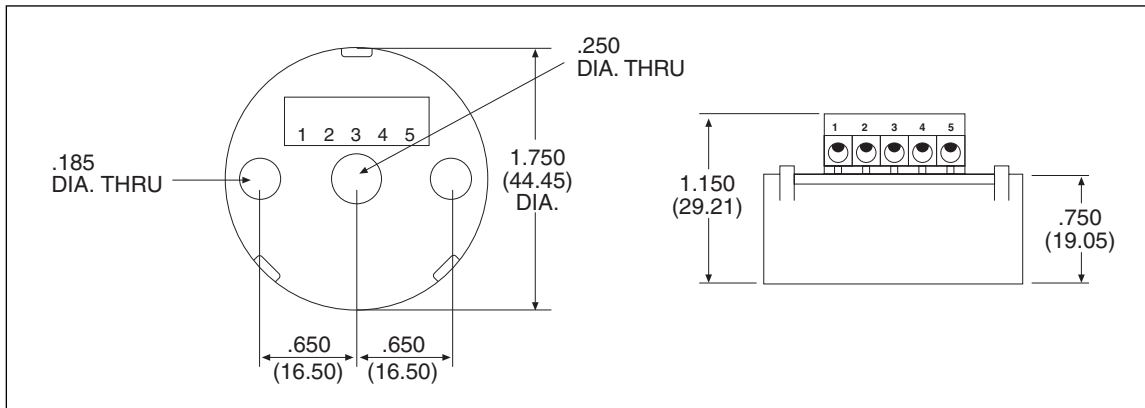
### Mounting

The FLSC-AMP-A module may be mounted using the screw holes provided in the molded housing. Double-sided tape, Velcro, or glue may also be used to secure the module in place. The FLSC-AMP-A module can also be snap track mounted using an adapter plate.

## Specifications

Power:	8 to 24 Vdc
Input Frequency:	10 Hz to 10 KHz
Input Voltage:	Sinusoidal 500mV p-p to 50V p-p
Input Impedance:	10 K ohms
Output:	100 mA sink max. with 4.7K internal pull-up resistor
Temperature Range:	-10 to 60°C
Weight:	1 oz.

## Dimensions



OMEGAnet® On-Line Service <a href="http://www.omega.com">www.omega.com</a>	Internet e-mail <a href="mailto:info@omega.com">info@omega.com</a>
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### For immediate technical or application assistance:

<b>USA and Canada:</b>	Sales Service: 1-800-826-6342 / 1-800-TC-OMEGA® Customer Service: 1-800-622-2378 / 1-800-622-BEST® Engineering Service: 1-800-872-9436 / 1-800-USA-WHEN®
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## 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, fuses, and triacs.

**OMEGA is pleased to offer suggestions on the use of its various products. Nevertheless, OMEGA only warrants that the parts manufactured by it will be as specified and free of defects.**

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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. P.O. 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.

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

1. P.O. 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.

It is the policy of OMEGA 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, patient connected applications.

**⚠** This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device as it contains important information relating to safety and EMC.

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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