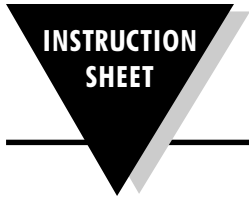




DRP Series
DRP-8555



M3211/0499

OMEGAnet[®] On-Line Service
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Servicing North America:

USA: One Omega Drive, Box 4047
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Czech Republic: ul. Rude armady 1868, 733 01 Karvina-Hranice
 Tel: 420 (69) 6311899 FAX: 420 (69) 6311114
 Toll Free: 0800-1-66342 e-mail: czech@omega.com

France: 9, rue Denis Papin, 78190 Trappes
 Tel: (33) 130-621-400 FAX: (33) 130-699-120
 Toll Free in France: 0800-4-06342
 e-mail: france@omega.com

Germany/Austria: Daimlerstrasse 26, D-75392 Deckenpfronn, Germany
 Tel: 49 (07056) 3017 FAX: 49 (07056) 8540
 Toll Free in Germany: 0130 11 21 66
 e-mail: info@omega.de

United Kingdom: One Omega Drive, River Bend Technology Centre
 ISO 9002 Certified Northbank, Irlam, Manchester
 M44 5EX, England
 Tel: 44 (161) 777-6611 FAX: 44 (161) 777-6622
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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.

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WARNING: These products are not designed for use in, and should not be used for, patient-connected 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 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 which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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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 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.

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 product, 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.

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Model DRP-8555 Strain Gage to Frequency I/O Module

Features

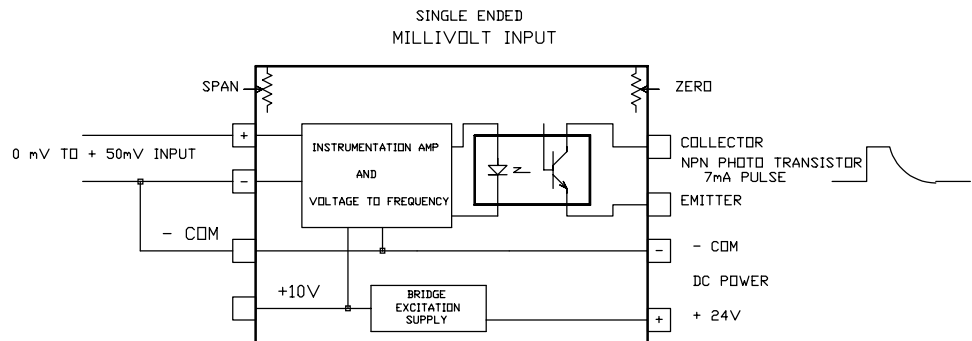
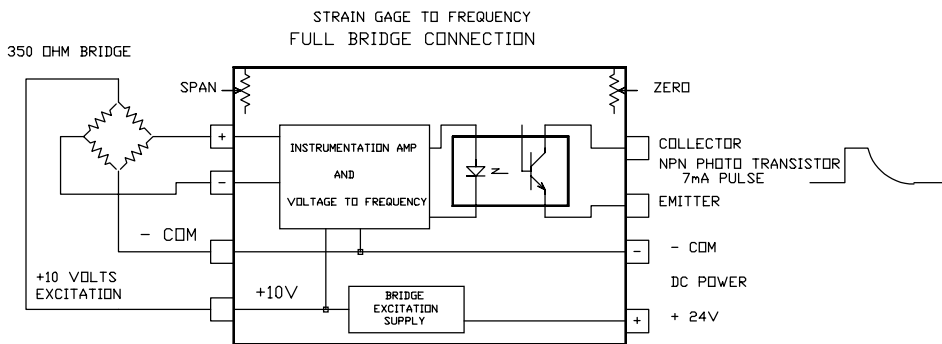
- 0 to 50 mV differential Analog Input
- Frequency Output to 5 kHz
- Compatible with PLC High Speed Counter Inputs
- Includes 10V Excitation Supply
- Isolated Input to Output
- 12 Bit Resolution
- Din Rail Mountable
- Operates on a 24V DC Supply

Description

These analog to frequency converters offer a cost effective solution for a single or multiple channel PLC I/O system. They are designed to operate into the PLC high speed counter inputs. The input range of 0 to 50mV makes the DRP-8555 compatible with most strain gage based load cell or pressure transducer outputs. The built-in 10V excitation supply is capable of driving one 350 ohm bridge. The DRP-8555 output for all modules is linear to 0.01% with a very high accuracy of better than 0.1%. The output is an isolated floating optocoupler transistor which provides DC isolation from the input and DC power. Connections are made easily accessible with screw clamp terminal blocks.

Applications

- PLC Control Systems
- Discrete Automation
- Industrial Process Control Systems
- Automated Control Systems



Specifications	DRP-8555
Input	0 to 50mV Differential Signal from Full Bridge Strain Gage
Resistance	1000 megohm
Current	10 nA
Common Mode	0 to +5 Volts
Output	0 to 5 kHz Floating Optocoupler Transistor 7 mA Pulse - 50 μ Sec Width
Resolution	10 microvolts - 12 Bits
Bridge Excitation	10 Volts for One 350 ohm Bridge
Power Requirements	24 VDC @ 45 mA
Size	1.65"H x 1.06"W x 3.78"L (42 x 27 x 96 mm)
Weight	3 oz. (85grams)

Model DRP-8555 Strain Gage to Frequency I/O Module