omega.com®

DRC Series

DRC-8901, 8902, 8903, 8904, 8905, 8906, 8907, 8908 DRC-8911, 8912, 8913, 8914, 8915, 8916, 8917, 8918

INSTRUCTION SHEET

M3773/0102





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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 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'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:

- Purchase Order number under which the product was PURCHASED,
- 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:

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

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Models DRC-8901 thru 8908 Isolated Tranmitters

0 to 10 Volt Output

del	DRC-8901	DRC-8902	DRC-8903	DRC-8904	DRC-8905	DRC-8906	DRC-8907	DRC-8908			
Input - DC	0 - 50 mV	0 - 100 mV	0 - 5 V	0 - 10 V	0 - 100 V	4 - 20 mA	0 - 20 mA	0 - 50 mA			
Input Resistance											
Voltage Input	1 Megohm										
Current Input	50 Ohms										
Linearity, of Full Scale	±0.02%										
Accuracy, of Full Scale	±0.1%										
Maximum Input - No Damage											
Voltage Input Models	130 VRMS										
Current Input Models	65 mA (3.25 Volts across 50 Ohm Input R)										
Output	0 -10 V										
Response Time, 10% to 90%	10 ms										
Ripple and Noise, of Full Scale	0.05%										
Load	5 mA										
Temp. Coefficient											
Zero	±0.5 mV/°C										
Full Scale	±100 ppm/°C										
Power Requirements											
Voltage	22 to 26 Volts DC										
Current		20 mA									
Isolation, 3 Way	700 VDC										
Power to Input or Output	15 pF										
Input to Output	750 pF										
60 Hertz CMRR	85 db										
Environment											
Operating	0°C to +55°C										
Storage		-40°C to +85°C									
Size	P	astic Case (UL-9	94V-1) with built	n DIN Rail Foot	4.33"H x 0.89	95"W x 2.95"L (1	10 x 22.5 x 75 m	ım)			
Weight		5 oz. (142 grams)									
Agency Approvals (pending)	UL 508, UL 1604										

Models DRC-8911 thru 8918 Isolated Transmitters

4 to 20mA Output

el	DRC-8911	DRC-8912	DRC-8913	DRC-8914	DRC-8915	DRC-8916	DRC-8917	DRC-8918				
Input - DC	0 - 50 mV	0 - 100 mV	0 - 5 V	0 - 10 V	0 - 100 V	4 - 20 mA	0 - 20 mA	0 - 50 mA				
Input Resistance												
Voltage Input	1 Megohm											
Current Input	50 Ohms											
Linearity, of Full Scale	±0.02%											
Accuracy, of Full Scale		±0.1%										
Maximum Input - No Damage												
Voltage Input Models		130 VRMS										
Current Input Models		65 mA (3.25 Volts across 50 Ohm Input R)										
Output		4 -20 mA										
Response Time, 10% to 90%	10 ms											
Ripple and Noise, of Full Scale		0.05%										
Load		0 to 500 Ohms										
Minimum Output Current		Model 8916, 2.5 mA Typical										
Open Circuit Voltage		13 Volts										
Temp. Coefficient												
Zero		±0.5 µA/°C Typical										
Full Scale		±100 ppm/°C Typical										
Power Requirements												
Voltage		22 to 26 Volts DC										
Current		40 mA										
Isolation, 3 Way		700 VDC										
Power to Input or Output	15 pF											
Input to Output		750 pF										
60 Hertz CMRR		85 db										
Environment												
Operating		0°C to +55°C										
Storage		-40°C to +85°C										
Size	P	astic Case (UL-9	94V-1) with built i	n DIN Rail Foot	4.33"H x 0.89	95"W x 2.95"L (1	10 x 22.5 x 75 m	ım)				
Weight		5 oz. (142 grams)										
Agency Approvals (pending)		UL 508, UL 1604										