

DEVAR Inc.

706 Bostwick Avenue, Bridgeport, CT 06605

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1-800-566-6822 www.devarinc.com

Model 18-254

TWO-WIRE AC CURRENT
TO mADC TRANSMITTER

PRODUCT DESCRIPTION

18-254 TWO WIRE AC CURRENT TO mA DC TRANSMITTER

1. Product Description

The 18-254 Two-Wire AC Current to DC mA Transmitter is used to provide a 0 to 20mA DC signal, for measurement or control, that is proportional to a 0 to 5 Amp alternating current. Electrical connections to the converter are made by connecting the input terminals in series with the AC line that is being measured and connecting the output terminals in series with the output control loop.

The 18-254 features compact size by integrating the electronics and current sensing transformer into one package. Measurement of AC current is accomplished by a highly sensitive current transformer, whose primary windings are connected in series with the AC line. The signal is then rectified and filtered to provide a DC milliamp output current. The output current is internally limited to slightly above the calibrated max output level.

2. Specifications

2.1. General

- a. Calibrated Accuracy ±0.5%
- b. Environmental Temperature Influence:
 - 1. Recommended Temperature Influence -10 to 60°C
 - 2. Output Error ±0.02%/°F

2.2. Inputs

- a. Range 0/5A AC (RMS), Type 18-254-5A
- b. Maximum Voltage 600 VAC
- c. Power Consumption (Burden) 0.6 Volt-Amperes

2.3. Output

- a. Current Range 0 to 20 mA DC
- b. Load 0 to 500 Ohms
- c. Limited Current Limited to Approx. 24 mA

2.4. Housing

- a. NEMA 1 1" x 2-15/32" x 5-1/16"

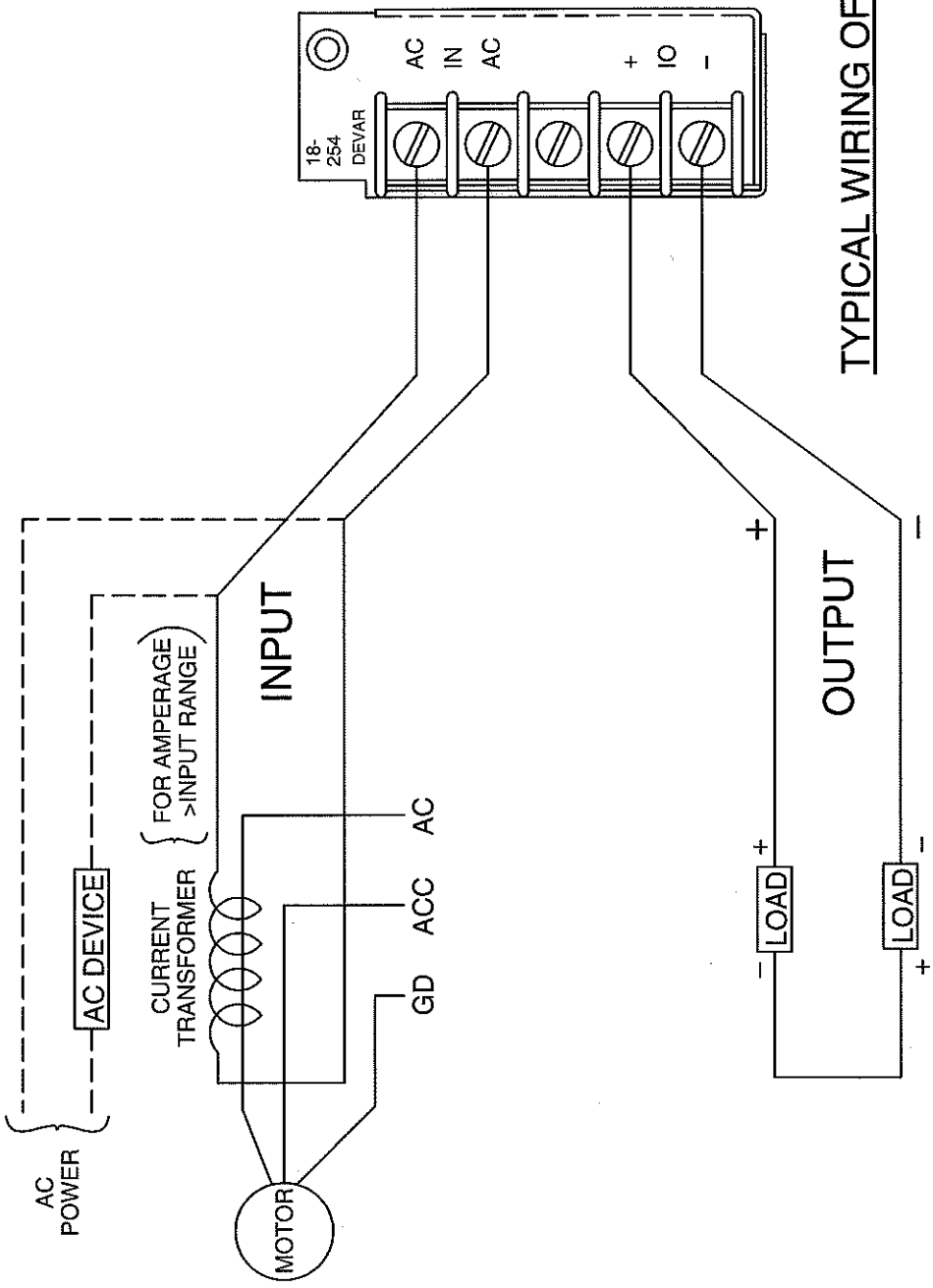
2.5. Mounting Options

- a. Surface Mount / SnapTrack or DIN Rail Bracket -M31 or M321D
- b. Rack Mount Units -R

B	3376	REDRAWN IN ELECTRONIC FORMAT		
A	3046	INITIAL RELEASE	AG	11-18-92
REV.	ECN	DESCRIPTION	APPR.	DATE

DEVAR Inc.		706 Bostwick Ave. Bridgeport CT 06605 Tel: (203) 368 6751; Fax: (203) 368 3747		18-254, PRODUCT DESCRIPTION				
				PREPARED	RNT	02-21-08	NEXT ASSY.	SCALE
				515533-AR	NONE	1 of 1	515540	B

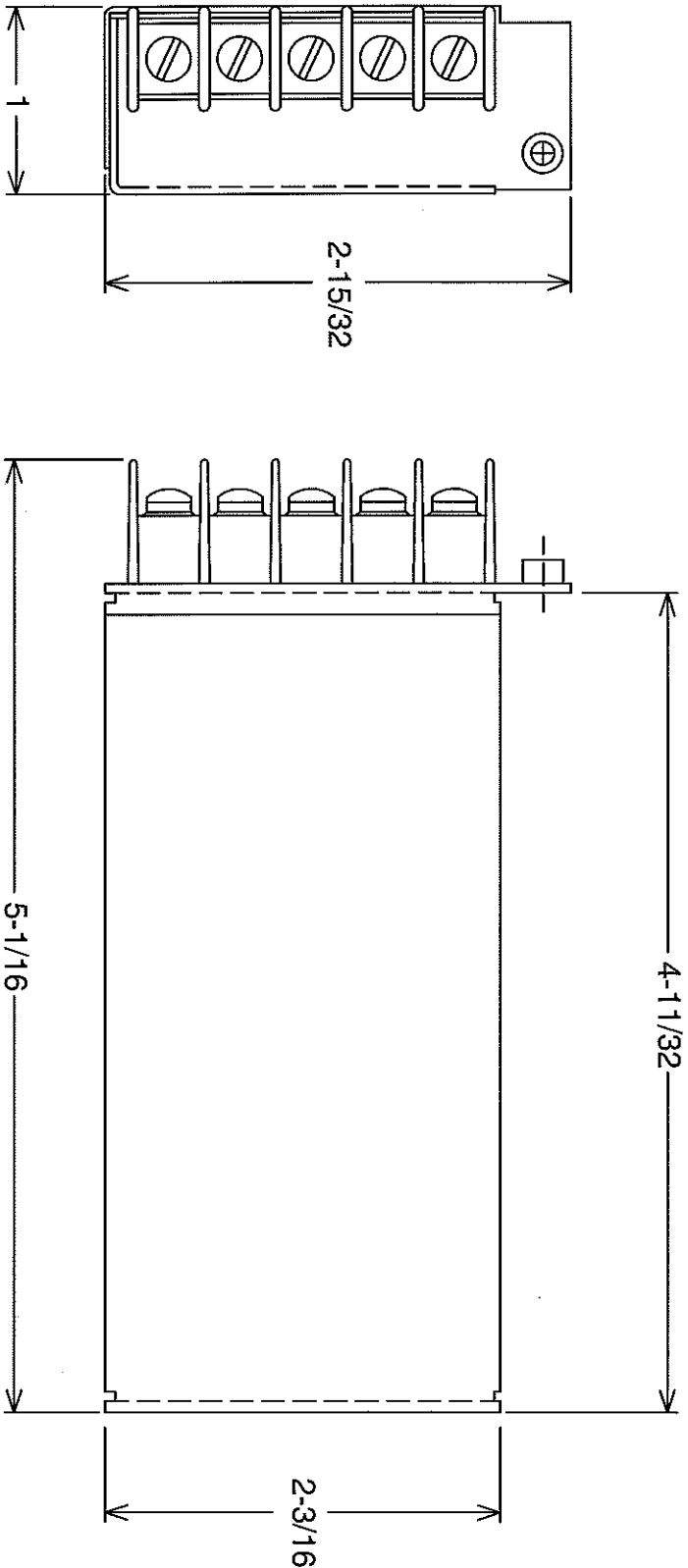
REV	DESCRIPTION	DATE	APPROVED
A	RELEASE CO-80070; ECN 3046	11-24-92	AG
B	REDRAWN IN ELECTRONIC FORMAT; ECN 3376	2-2-11	LFG



TYPICAL WIRING OF THE 18-254

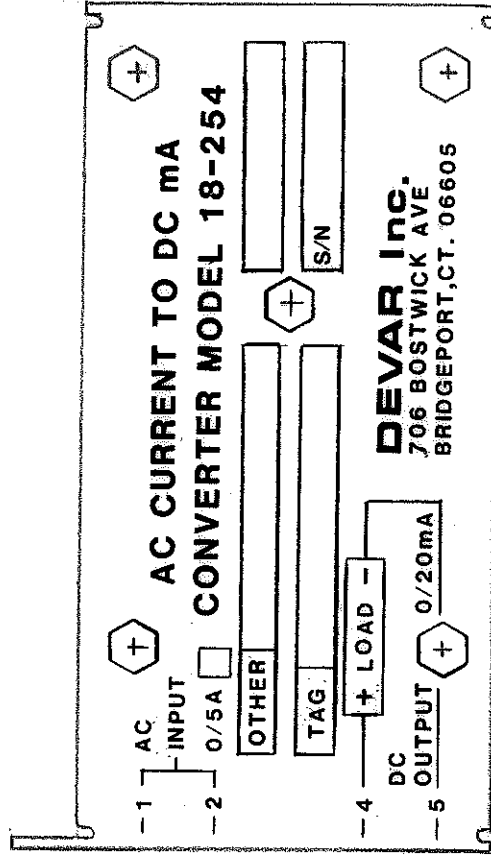
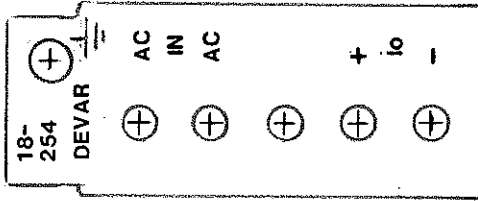
This Drawing is the sole property of DEVAR Inc., and is submitted on the understanding that the contents hereof are not published and are not to be disclosed, to third persons without prior permission.	UNspecified DIMENSION TOLERANCE DECIMAL $\pm 0.005"$ FRACTION $\pm 1/64"$ ANGLE $\pm 1/2$ DEGREE	CONTRACT NO. PREPARED RNT CHECKED LFG MECH ELEC DESIGN APPROVED	DEVAR Inc. 706 Bostwick Avenue, Bridgeport, Conn. 06605 TEL: (203) 368-6751 FAX: (203) 368-3747
	MATERIAL -N/A- FINISH -N/A- NEXT ASSY. NO. BM 515533-AR	02-22-08 2-2-11	18-254, FIELD WIRING
SIZE A SCALE N/A DRAWING NO. 512082		SHEET 1 OF 1	REV B

REV	DESCRIPTION	DATE	APPROVED
A	RELEASE; ECN 2594	12-02-83	AG
B	ADD 18-254 TO TITLE; ECN 3046	11-19-92	AG
C	REDRAWN; ECN 3376	2-2-11	LFQ



UNSPECIFIED DIMENSION TOLERANCE DECIMAL +/- 0.005" FRACTION +/- 1/64" ANGLE +/- 1/2 DEGREE		CONTRACT NO.	
MATERIAL -N/A-		PREPARED RNT	02-25-08
FINISH -N/A-		CHECKED LFG	2-2-11
NEXT ASSY NO. BM 515533-AR		MECH ELEC	
This Drawing is the sole property of DEVAR Inc., and is submitted on the understanding that the contents hereof are not to be disclosed. to third persons without prior permission.		DESIGN APPROVED	
APPROVED		APPROVED	
DEVAR Inc. 706 Bostwick Avenue, Bridgeport, Conn. 06605 TEL: (203) 368-6751 FAX: (203) 368-9747		GENERAL DIMENSION, 18-215 & 18-254	
SIZE A	DRAWING NO. 514431	SCALE NTS	WT
SHEET 1 OF 1		REV C	

This drawing is the sole property of CONTROL PRODUCTS DIVISION of DEVAR Inc., and is submitted on the understanding that the contents hereof are not published and are not to be disclosed to third persons without permission.



DWG NO		SH	
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
	SEE PAGE 1		

ARTWORK SHEET 1 OF 2

TOLERANCES UNLESS SPECIFIED DECIMAL DIM. ± .005 FRACT. DIM. ± 1/64 ANGLES ± 1/2°		CONTRACT NO.	
MATERIAL	PREPARED	L.H.	11-20-92
FINISH	CHECKED		
	MECH		
	ELEC		
	DESIGN		
	APPROVED	a.jc. 11-24-92	
NEXT ASSY NO. B/M 515551-01	APPROVED	SCALE FULL	WT
		DRAWING NO. 515552	REV A
		SHEET 2 OF 2	

DEVAR INC. 706 Bostwick Avenue, Bridgeport, Conn. 06605
CONTROL PRODUCTS DIVISION
 CASE SILKSCREEN
 18-254

WARRANTY

DEVAR INC. WARRANTS THIS PRODUCT AGAINST FAILURE AS A RESULT OF DEFECTS IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF TWO YEARS. Should this product prove to be defective in material or workmanship during the warranty period, Devar Inc. will, at its discretion, repair or replace the defective item at no charge to the customer. Products that are damaged by accident, misuse, fire, water, lightning or other acts of nature are not covered under this warranty. Also not covered, is damage, due to shipping, installation, incorrect wiring or any other cause not related to a product defect. Unauthorized product modification, repair or attempted repair, or serial number modification will void the warranty.