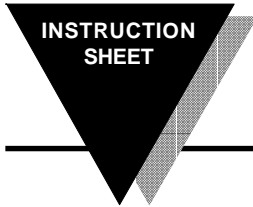




DP18 Series

Models DP18-Q1 / - Q2 / -Q3 / -Q4

Ohmmeter



M2117/1294



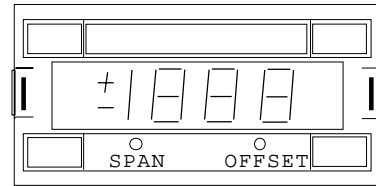
OHMMETER, 3½ DIGITS, FOUR RANGES ARE USER-SELECTABLE ON THE SIGNAL CONDITIONER BY PLUG-IN JUMPERS, EACH WITH ITS OWN CONSTANT CURRENT EXCITATION. THE UNKNOWN RESISTANCE CAN BE MEASURED WITH 4 WIRES TO ELIMINATE THE EFFECT OF LEAD RESISTANCE.

SPECIFICATIONS

DISPLAYS	3½ digits, 7 segment, red LED
HEIGHT	0.56" (14.2 mm.)
SYMBOLS	± 1.8.8.8
DECIMAL POINTS	Selectable by jumpers
OVERRANGE INDICATION	Display flashes
INPUT CONFIGURATION	Bipolar single
ZERO	Automatic
SPAN ADJUSTMENT	± 5 %
CONVERTER	Dual-slope, average value
POLARITY	Automatic ±
SIGNAL INTEGRATION PERIOD	80 ms.
READ RATE	3.12 / sec.
RANGES	See table selection fig. 3
HOLD	Optional
NOISE REJECTION NMR	50 dB. 50/60 Hz.
ACCURACY	0.05 % ± 1 count
WARMUP TO RATED ACCURACY	5 minutes
SPAN TEMP CO	50 ppm
ZERO TEMP CO	2.5 µV/°C.
OPERATING TEMPERATURE	0 to 50 °C (32 to 122 °F)
STORAGE TEMPERATURE	-40 to 80 °C (-40 to 176 °F)
WEIGHT	310 gr. (0.68 lb)
CASE MATERIAL	ABS, DIN 43700 black color
STANDARD POWER	115 Vac. ± 10 %, 50/60 Hz.
POWER CONSUMPTION	5.5 VA for AC.
ELECTRICAL CONNECTIONS	Push-in cable connectors
BURN-IN	24 h.

FIG. 1

FRONT VIEW



SPAN: ADJUST THE MAXIMUM READING.
OFFSET: NOT IN SERVICE

SPAN ADJUSTMENT IS ACCESSIBLE BEHIND THE LOW DOOR.

FIG. 2

REAR VIEW

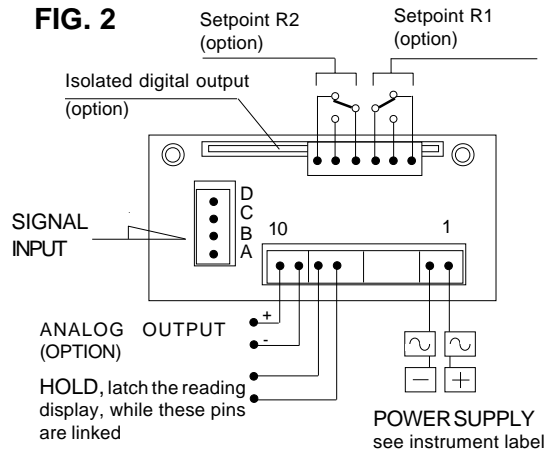
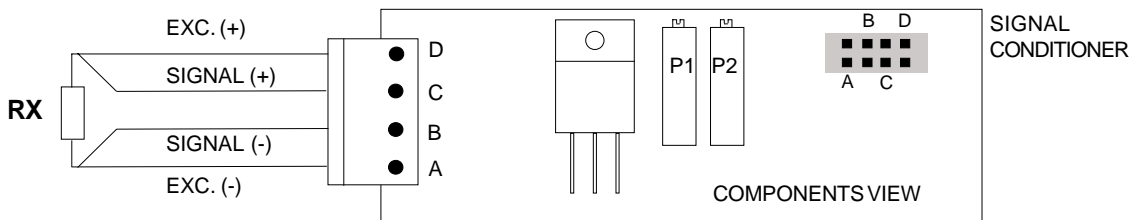


FIG. 3

READING RANGE SELECTION



!WARNING!

TO AVOID IRREVERSIBLE DAMAGE TO THE METER, CHECK THAT THE CIRCUIT TO BE MEASURED, IS FREE OF ELECTRICAL VOLTAGE. FOR 2 WIRE CONNECTION, LINK THE TERMINAL A TO THE TERMINAL B, AND TERMINAL C TO TERMINAL D.

MODEL	RANGE	RESOLUTION CURRENT	EXCITATION CONDITIONER	CLOSE JUMPER	
				FIG.3 SIGNAL POINT	FIG.5 DECIMAL
DP18-Q1	0-199.9 Ω	0.1 Ω	10 mA	A	D1
DP18-Q2	0-1999 Ω	1 Ω	1 mA	B	----
DP18-Q3	0-19.99 KΩ	10 Ω	0.1 mA	C	D2
DP18-Q4	0-199.9 KΩ	100 Ω	0.01 mA	D	D1

SELECT THE DESIRED RANGE, CLOSING THE APPROPRIATE JUMPER (**SELECTOR S1**) ON THE SIGNAL CONDITIONER. CLOSE THE APPROPRIATE DECIMAL POINT JUMPER (FIG.5), CORRESPONDING TO THE READING DESIRED. FOR READING 14.50, PLACE THE JUMPER ON THE **D2** POSITION.



OPTIONS AND POWER SUPPLIES AVAILABLE FOR DP18 Series

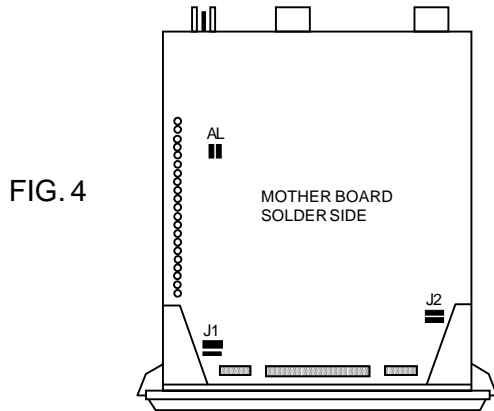
CONTROL OUTPUT/COMMUNICATIONS OPTIONS
Select a maximum of one option from each column

POWER SUPPLY OPTIONS

Table with 4 columns: OPTION, DESCRIPTION, OPTION, DESCRIPTION. Lists options like BCD, R1, R2, APH1, 232 and A01, A02, A03, APH2.

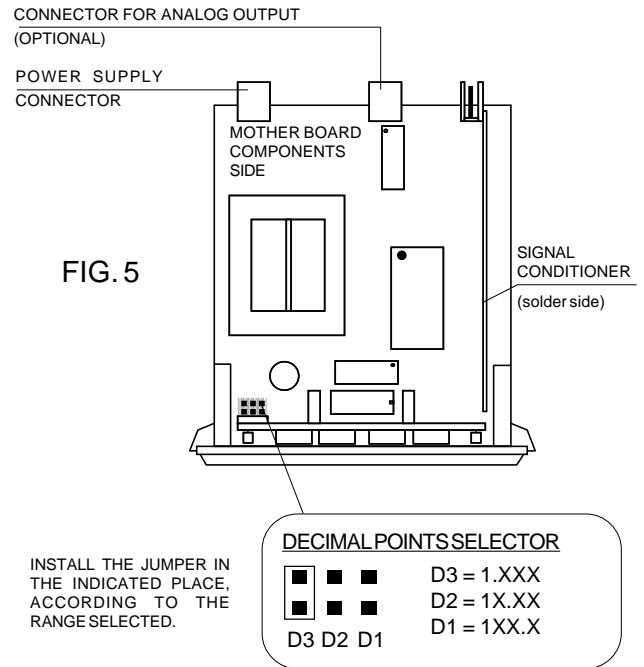
Table with 4 columns: OPTION, POWER, OPTION, POWER. Lists power supply options like 230, STD, 24, 48.

SELECTION OF : DECIMAL POINTS AND SPECIAL OPTIONS



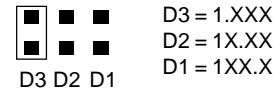
JUMPERS SELECTION FOR SPECIAL OPTIONS

AL: OPEN ONLY WHEN ALARM SETPOINT CARD OPTION IS ADDED
J1: OPEN TO ELIMINATE THE LEAST-SIGNIFICANT DIGIT (LSD)
J2: OPEN TO ELIMINATE THE INDICATION ±



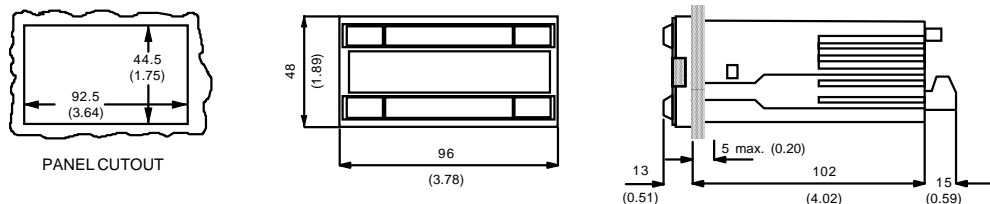
INSTALL THE JUMPER IN THE INDICATED PLACE, ACCORDING TO THE RANGE SELECTED.

DECIMAL POINTS SELECTOR



MECHANICAL DIMENSIONS mm (in)

FIG. 6



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 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.

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.

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;



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RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA ENGINEERING Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT.

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 product, and
3. Repair instructions and/or specific problems relative to the product.

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