



DP18 Series

Model DP18-DV2 / -DV3 / -DV4 / -DV5

DC Voltmeters

INSTRUCTION SHEET

M2097/1294

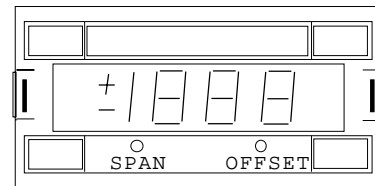


DC INSTRUMENT, 3½ DIGITS, WITH FOUR RANGES SELECTABLE ON THE SIGNAL CONDITIONER BY PLUG-IN JUMPERS. THE READING CAN NOT BE MODIFIED, THEREFORE THE DISPLAY WILL SHOW EXACTLY THE VALUE PRESENT AT THE INPUT SIGNAL.

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
HOLD	Optional
NOISE REJECTION NMR	50 dB. 50/60 Hz.
ACCURACY	0.05 % ± 1 count
WARMUP TO RATED ACCURACY	5 minutes
SPAN TEMPCO	50 ppm.
ZERO TEMPCO	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

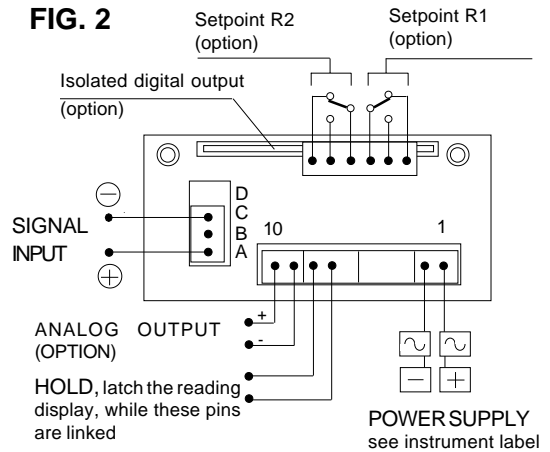


FIG. 3

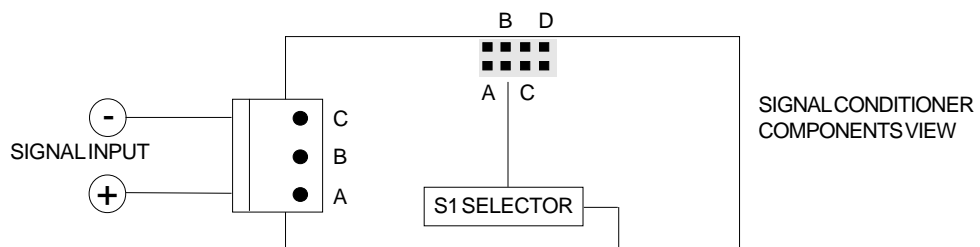


TABLE 1, FOR RANGE SELECTION

MODEL	RANGE Vdc.	DISPLAY READING	CLOSE JUMPER		RESOLUTION mV.	INPUT RESISTANCE
			FIG.3 SIGNAL CONDITIONER	FIG.5 DECIMAL POINT		
DP18-DV2	2	1.999	A	D3	1	1.000 MΩ
DP18-DV3	20	19.99	B	D2	10	1 MΩ
DP18-DV4	200	199.9	C	D1	100	
DP18-DV5	600	600	D	----	1.000	

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 RANGE SELECTED.



OPTIONS AND POWER SUPPLIES AVAILABLE FOR DP18 Series

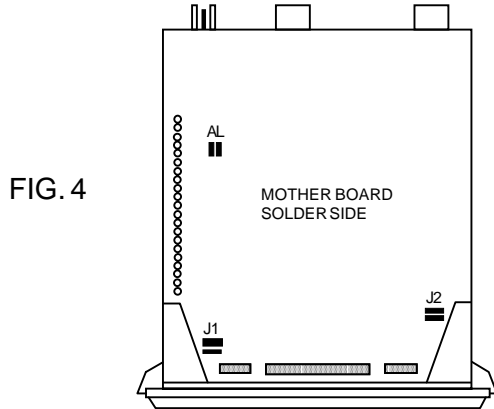
CONTROL OUTPUT/COMMUNICATIONS OPTIONS
Select a maximum of one option from each column

POWER SUPPLY OPTIONS

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

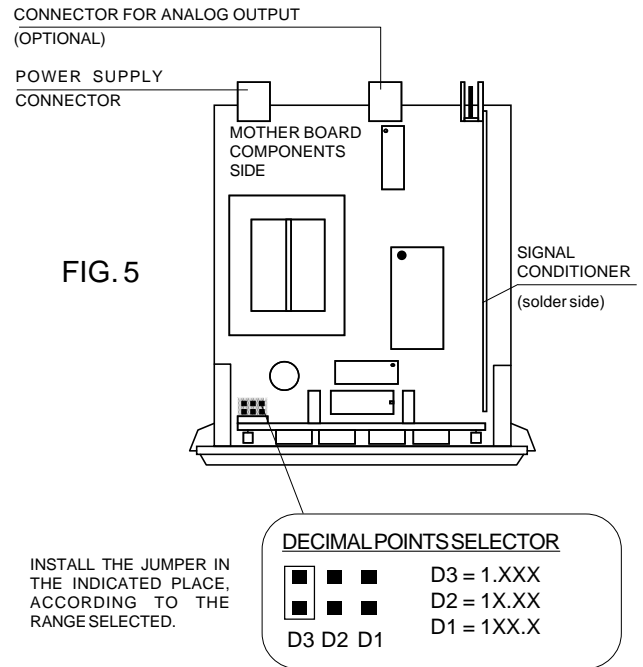
Table with 4 columns: OPTION, POWER, OPTION, POWER. Lists power supply options like 230, STD, 24, 48.

SELECTION OF : DECIMAL POINTS AND SPECIAL OPTIONS

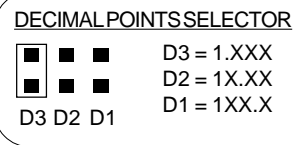


JUMPERS SELECTION FOR SPECIAL OPTIONS

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 ±

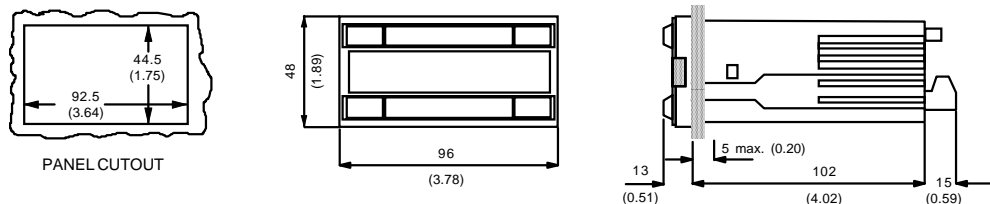


INSTALL THE JUMPER IN THE INDICATED PLACE, ACCORDING TO THE RANGE SELECTED.



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.

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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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