

DP18 Series Models DP18- P1 /-P2 /-P3 /-P4 /-P5 /-P6 **Process Indicator**



M2112/0297



SPECIFICATIONS

DISPLAYS
HEIGHT
DECIMAL POINTS
OVERRANGE INDICATION Display flashes: 1999.

Dual slope, average value CONVERTER.....

POLARITY
SIGNALINTEGRATION PERIOD
READ RATE
RANGES 3.12/sec See table fig.3. HOLD Optional.

NOISE REJECTION N.M.R.R. 0.15% ±1 count. 2 minutes

OPERATING TEMPERATURE 0 to 50°C.(32 to 122°F) -40 to 80 °C.(-40 to 176°F)

STORAGE TEMPERATURE
WEIGHT
CASE MATERIAL
STANDARD POWER
POWER CONSUMPTION 310 gr.(0.68 lb) ABS, black color, DIN 43700. 115 Vac., ±10% 50/60 Hz. 5.5 VA in AC. / 3.5 W in DC.

Screw-clamp connectors.

48 hours. 12 months

Adjustable from 10 to 24 Vdc.

Transmitter or transducer

powered by 4-20 mA loop

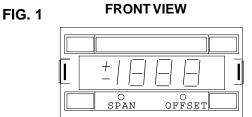
signal

EXCITATION OUTPUT: -OUTPUT CURRENT -RIPPLE AT 50/60 Hz 50 mA.max. 0.2% max.

INSTRUMENT FOR READING PROCESS SIGNALS IN D.C. WITH AN EXCITATION OUTPUT FOR TRANSDUCERS AND TRANSMITTERS. THE AVAILABLE INPUTS ARE:

IN VOLTAGE: 0-1 Vdc, 0-5 Vdc, 1-5 Vdc. INCURRENT : 0-1 mA, 0-5 mA, 1-5 mA, 0-20 mA, 4-20

mA, 0-50 mA, 10-50 mAdc.



SPAN: ADJUST THE MAXIMUM READING.

OFFSET: ZERO BALANCE

SPAN AND OFFSET ADJUSTMENT ARE ACCESSIBLE BEHIND THE LOW DOOR.

REAR VIEW

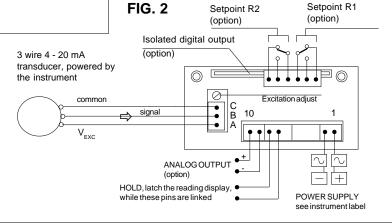
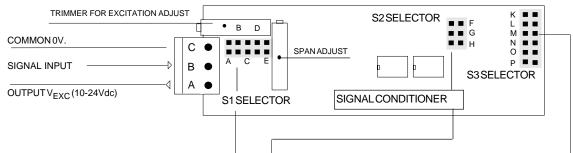


FIG. 3

Transmitter or transducer

with external excitation

INPUT, SPAN AND OFFSET SELECTIONS.



ADJUSTS ACCORDING TO THE INPUT TYPE (S1-S2, SELECTORS)

MODEL	SIGNAL INPUT	CLOSE JUMPERS	INPUT IMPEDANCE	MAXIMUM CURRENT	
DP18-P1	0-1 V.	E,G 1.1MΩ			
DP18-P2	0-5 V.	E,F,G	1.1ΜΩ		
	1-5 V.	E,F	1.1ΜΩ		
DP18-P3	0-1 mA	A,D,G	100Ω	35 mA	
DP18-P4	0-5 mA	A,D,F,G	100Ω	35 mA	
	1-5 mA	A,D,F	100Ω	35 mA	
DP18-P5	0-20 mA	A,C,F,G	24.9Ω	70 mA	
	4-20 mA	A,C,F	24.9Ω	70 mA	
DP18-P6	0-50 mA	A,B,F,G	10Ω	100 mA	
	10-50 mA	A,B,F	10Ω	100 mA	

SPAN AND OFFSET ADJUSTS (S3 SELECTOR)

SPAN RANGE			OFFSET RANGE		OFFSET	
DISPLAY	CLOSE JUMPER		COUNTS	CLOSE JUMPER	+	
0 to 1.000	К		0 to 500	Р		
1.000 to 2.000			500 to 1.000		0	М
2.000 to 4.000	L		1.000 to 1.999	N		

This signal conditioner can be configured for other signal inputs, wich must be displayed in engineering units. An offset adjustment may be necessary.



OPTIONS AND POWER SUPPLIES AVAILABLE FOR DP18 Series

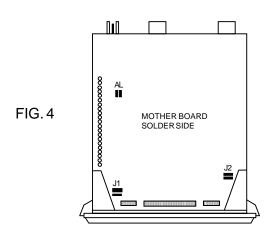
CONTROLOUTPUT/COMMUNICATIONSOPTIONS Select a maximum of one option from each column

OPTION	DESCRIPTION	OPTION	DESCRIPTION
BCD R1 R2 APH1 232	PARALLEL BCD, OPTOISOLATED SINGLE SETPOINT, 3 Amp. Relay DUAL SETPOINT, 3 Amp: Relays ANALOG PEAK HOLD ISOLATED SERIAL OUTPUT RS-232	A01 A02 A03 APH2	ANALOG OUTPUT, MA SINK ANALOG OUTPUT, MA SOURCE ANALOG OUTPUT, VOLTAGE ANALOG PEAK HOLD

POWER SUPPLY OPTIONS

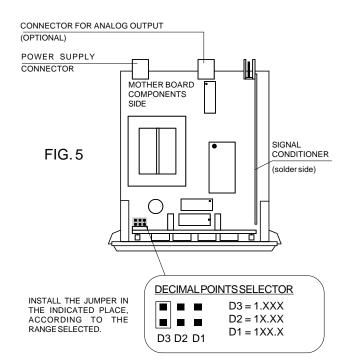
OPTION	POWER	OPTION	POWER
230 STD 24 48	230 Vac 50/60 Hz 115 Vac 50/60 Hz 24 Vac 50/60 Hz 48 Vac 50/60 Hz	15/30 Vdc 24/65 Vdc	1530 Vdc10% (3.5 W) isolated 2465 Vdc (4 W) isolated

SELECTION OF: DECIMAL POINTS AND SPECIAL OPTIONS



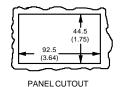
JUMPERS SELECTION FOR SPECIAL OPTIONS

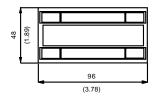
- $\begin{array}{lll} \textbf{AL:} \ OPEN \ ONLY \ WHEN \ ALARM \ SETPOINT \ CARD \ OPTION \ IS \ ADDED \\ \textbf{J1:} \ OPEN \ TO \ ELIMINATE \ THE \ LEAST-SIGNIFICANT \ DIGIT(LSD) \\ \textbf{J2:} \ OPEN \ TO \ ELIMINATE \ THE \ INDICATION \ \pm \end{array}$

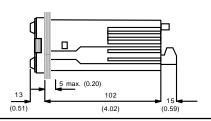


MECHANICAL DIMENSIONS mm (in)









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OMEGA warrants this unit to be free of defects in materials and workmanship and to give 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 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 should malfunction, 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. However, this WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current; heat; moisture or vibration; improper specification; misasplication; misuse or other operating conditions outside of OMEGA's control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses and triacs.

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MEGA

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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 (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

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

- 1. P.O. number under which the product was PURCHASED.
- Model and serial number of the product
- under warranty, and Repair instructions and/or specific prob-lems relative to the product.
- FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
- P.O. number to cover the COST of the
- Model and serial number of product, and 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

OMEGA's point yis to make turning changes, internote changes, wherever armiprovements possible. This affords our customers the latest in technology and engineering.

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