AC INSTRUMENT, 3½ DIGITS, WITH FOUR RANGES SELECTABLE ON THE SIGNAL CONDITIONER BY PLUG-IN JUMPERS. THE READING CANNOT BE MODIFIED, THEREFORE THE DISPLAY WILL SHOWS 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
- **Decimal Points**: Selectable by jumpers
- **Overrange/Indication**: Display flashes
- **Input Configuration**: Bipolar single
- **Zero**: Automatic
- **Span Adjustment**: ± 5 %
- **Converter**: Dual-slope, average value
- **Read Rate**: 3.12/s
- **Ranges**: See table selection
- **Hold**: Optional
- **Noise Rejection**: 50 dB, 50/60 Hz
- **Accuracy**: 0.2 % ± 1 count
- **Signal Integration Period**: 80 ms
- **Span Temperature Coefficient (PTC)**: 100 ppm.
- **Zero Temperature Coefficient**: 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.

**RANGE SELECTION**

- **Signal Input**: Vac
- **Gross Span Adjustment**: PT1

**S1 SELECTOR**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Display Reading</th>
<th>Close Jumper</th>
<th>Resolution</th>
<th>Input Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP18-AV1</td>
<td>2</td>
<td>1.999</td>
<td>A</td>
<td>D3</td>
<td>1</td>
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<tr>
<td>DP18-AV2</td>
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<td>19.99</td>
<td>B</td>
<td>D2</td>
<td>10</td>
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<tr>
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<td>199.9</td>
<td>C</td>
<td>D1</td>
<td>100</td>
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<tr>
<td>DP18-AV4</td>
<td>500</td>
<td>500</td>
<td>D</td>
<td>---</td>
<td>1,000</td>
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</tbody>
</table>

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/COMMUNICATION OPTIONS
Select a maximum of one option from each column

<table>
<thead>
<tr>
<th>OPTION</th>
<th>DESCRIPTION</th>
<th>OPTION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCD</td>
<td>PARALLEL BCD, OPTOISOLATED</td>
<td>A01</td>
<td>ANALOG OUTPUT, 1A SINK</td>
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<tr>
<td>R1</td>
<td>DUAL SETPOINT, 3 Amp, Relays</td>
<td>A02</td>
<td>ANALOG OUTPUT, NA SOURCE</td>
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<tr>
<td>R2</td>
<td>ISOLATED SERIAL OUTPUT- RS-232</td>
<td>A03</td>
<td>ANALOG OUTPUT, VOLTAGE</td>
</tr>
<tr>
<td>AP2</td>
<td>ISOLATED SERIAL OUTPUT- RS-232</td>
<td>A04</td>
<td>ANALOG PEAK HOLD</td>
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</table>

POWER SUPPLY OPTIONS

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<tr>
<th>OPTION</th>
<th>POWER</th>
<th>OPTION</th>
<th>POWER</th>
<th>OPTION</th>
<th>POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>230 V</td>
<td>230 Vac</td>
<td>50/60 Hz</td>
<td>15/30 Vac</td>
<td>10% - (0.5 W) alkaline</td>
</tr>
<tr>
<td></td>
<td>24 V</td>
<td>24 Vac</td>
<td>50/60 Hz</td>
<td>24/65 Vdc</td>
<td>24...45 Vac (4 W) isolated</td>
</tr>
</tbody>
</table>

SELECTION OF : DECIMAL POINTS AND SPECIAL OPTIONS

FIG. 4

JUMPERS SELECTION FOR SPECIAL OPTIONS

FIG. 5

FIG. 6

MECHANICAL DIMENSIONS mm (in)

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of 12 months from date of purchase. OMEGA's 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 does not cover the following:

- Any unit which 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; misspecification; misuse; or other operating conditions outside of OMEGA's control.
- Components which wear or which are damaged by misuse are not warranted. Those include contact points, fuses and fuses.
- OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA does not assume responsibility for any omissions or errors or nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written.
- OMEGA only warrants that the parts manufactured by it will be of the grade and quality described on its product identification label, if any, but OMEGA makes no other WARRANTIES, expressed or implied, as to merchantability or fitness for a particular purpose. OMEGA hereby disclaims.

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CONDITIONS: Equipment supplied 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; (2) in medical applications or used on humans. Should any Product be used in any nuclear installation or activity, medical application, used in humans, or in any way, OMEGA assumes no responsibility as set forth in this 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.