

**Table 4-3. Specifications (Cont'd)**

<p><b>Auto Zero Off:</b> (5½ digits) for a stable environment (<math>\pm 1^\circ\text{C}</math>), for &lt;24 hrs., add 10 counts to accuracy specifications for all ranges.</p> <p><b>Temperature Coefficient:</b> 0°C to 55°C 5½ digit display, auto-zero ON. For frequencies &lt;20kHz, <math>\pm(0.016\%</math> of reading + 10 counts)/°C For frequencies &gt;20kHz, <math>\pm(0.04\%</math> of reading + 10 counts)/°C</p> <p><b>Crest Factor:</b> &gt;4:1 at full scale.</p> <p><b>Common Mode Rejection:</b> With 1kΩ imbalance in Lo lead, &gt;70dB, at 60Hz.</p> <p><b>Maximum Reading Rates: (readings/sec)</b> First reading is correct within 70 counts of final value, when on correct range, triggered coincident with step input. Add 0.6 seconds for each range change. Reading rates are the same as dc volts using fast trigger (T5). Using Normal Trigger (T1, T2, T3): For 50 or 60Hz operation, auto-zero ON or OFF. 3½ or 4½ digits: 1.4 5½ digits: 1.0</p>					<p><b>2-Wire Ohms Accuracy:</b> Same as 4-wire ohms, except add a maximum of 200mΩ offset. On the 3M ohm Range, add .0016% of reading and on the 30M ohm Range, add .0083%.</p> <p><b>Auto-Zero Off:</b> (5½ digit) for a stable environment (<math>\pm 1^\circ\text{C}</math>), for &lt;24 hrs., add 110 counts to accuracy specification for 30Ω range, 11 counts for 300Ω, 3 counts for 3KΩ through 300KΩ ranges, 8 counts for 3MΩ range, and 33 counts for 30MΩ range.</p> <p><b>Temperature Coefficient:</b> 0°C to 55°C 5½ digit display, auto-zero ON <math>\pm</math> (% of reading + number of counts)/°C</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Temperature Coefficient</th> </tr> </thead> <tbody> <tr> <td>30Ω</td> <td>0.003 + 5</td> </tr> <tr> <td>300Ω</td> <td>0.0009 + .5</td> </tr> <tr> <td>3k – 300kΩ</td> <td>0.0009 + .05</td> </tr> <tr> <td>3MΩ</td> <td>0.0021 + .05</td> </tr> <tr> <td>30MΩ</td> <td>0.021 + .05</td> </tr> </tbody> </table> <p><b>Current Through Unknown:</b></p> <table border="1"> <thead> <tr> <th>Range</th> <th>Current</th> </tr> </thead> <tbody> <tr> <td>30 ohm</td> <td>1mA</td> </tr> <tr> <td>300 ohm</td> <td>1mA</td> </tr> <tr> <td>3K ohm</td> <td>1mA</td> </tr> <tr> <td>30K ohm</td> <td>100μA</td> </tr> <tr> <td>300K ohm</td> <td>10μA</td> </tr> <tr> <td>3M ohm</td> <td>1μA</td> </tr> <tr> <td>30M ohm</td> <td>100nA</td> </tr> </tbody> </table> <p><b>Maximum Open Circuit Voltage:</b> 6.5V</p> <p><b>Maximum Reading Rates:</b> Same as dc volts, except for 3MΩ and 30MΩ ranges. For 3MΩ range, add 30ms; for 30MΩ range, add 300ms per reading.</p>					Range	Temperature Coefficient	30Ω	0.003 + 5	300Ω	0.0009 + .5	3k – 300kΩ	0.0009 + .05	3MΩ	0.0021 + .05	30MΩ	0.021 + .05	Range	Current	30 ohm	1mA	300 ohm	1mA	3K ohm	1mA	30K ohm	100μA	300K ohm	10μA	3M ohm	1μA	30M ohm	100nA						
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<p>Input Protection: (non-destructive) Hi source to Lo source: <math>\pm 350\text{V}</math> peak Hi sense to Lo sense: <math>\pm 350\text{V}</math> peak Hi or Lo to Earth Ground: <math>\pm 500\text{V}</math> peak</p> <p><b>Measurement Accuracy:</b> <math>\pm</math> (% of reading + number of counts) Auto-zero ON. 4-wire ohms. Maximum INPUT LO impedance is 3.3% of full scale.</p> <p><b>5½ Digit Mode:</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Range</th> <th colspan="2">Cal. Temp. <math>\pm 1^\circ\text{C}</math></th> <th colspan="2">Cal. Temp. <math>\pm 5^\circ\text{C}</math></th> </tr> <tr> <th>24 Hours</th> <th>90 Day</th> <th>90 Day</th> <th>1 Year</th> </tr> </thead> <tbody> <tr> <td>30Ω</td> <td>0.023 + 35</td> <td>0.027 + 41</td> <td>0.027 + 41</td> <td>0.034 + 41</td> </tr> <tr> <td>300Ω</td> <td>0.0045 + 4</td> <td>0.012 + 5</td> <td>0.012 + 5</td> <td>0.017 + 5</td> </tr> <tr> <td>3k – 300kΩ</td> <td>0.0035 + 2</td> <td>0.011 + 2</td> <td>0.011 + 2</td> <td>0.016 + 2</td> </tr> <tr> <td>3 MΩ</td> <td>0.0052 + 2</td> <td>0.011 + 2</td> <td>0.011 + 2</td> <td>0.016 + 2</td> </tr> <tr> <td>30MΩ</td> <td>0.036 + 2</td> <td>0.066 + 2</td> <td>0.066 + 2</td> <td>0.078 + 2</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Note</b> &gt;30 M ohm Range accuracy is approximately 0.002%/M ohm.</p>										Range	Cal. Temp. $\pm 1^\circ\text{C}$		Cal. Temp. $\pm 5^\circ\text{C}$		24 Hours	90 Day	90 Day	1 Year	30Ω	0.023 + 35	0.027 + 41	0.027 + 41	0.034 + 41	300Ω	0.0045 + 4	0.012 + 5	0.012 + 5	0.017 + 5	3k – 300kΩ	0.0035 + 2	0.011 + 2	0.011 + 2	0.016 + 2	3 MΩ	0.0052 + 2	0.011 + 2	0.011 + 2	0.016 + 2	30MΩ	0.036 + 2	0.066 + 2	0.066 + 2	0.078 + 2
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<p><b>Maximum Input: (non-destructive)</b> 3A from &lt;250V source; fuse protected</p> <p><b>Measurement Accuracy:</b> <math>\pm</math> (% of reading + number of counts) Auto-zero ON. 5½ digit display.</p> <table border="1"> <thead> <tr> <th rowspan="2">Range</th> <th colspan="2">Cal. Temp. <math>\pm 5^\circ\text{C}</math></th> </tr> <tr> <th>90 Days</th> <th>1 Year</th> </tr> </thead> <tbody> <tr> <td>300mA</td> <td>0.11 + 40</td> <td>0.15 + 40</td> </tr> <tr> <td>3A, &lt;1A input</td> <td>0.14 + 6</td> <td>0.17 + 6</td> </tr> <tr> <td>3A, &gt;1A input</td> <td>1.0 + 30</td> <td>1.0 + 30</td> </tr> </tbody> </table>										Range	Cal. Temp. $\pm 5^\circ\text{C}$		90 Days	1 Year	300mA	0.11 + 40	0.15 + 40	3A, <1A input	0.14 + 6	0.17 + 6	3A, >1A input	1.0 + 30	1.0 + 30																				
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