

## Compact Tester Series LG 3801



- Micro processor controlled
- Large 5.7" colour display
- Easy programming via rotary wheel
- Flexible configuration of test sequence
- Integration of IN-/OUTPUTS into the test sequence:
  - 8 digital inputs
  - 8 digital outputs
  - 2 analogue inputs
- Ethernet connection for network
- 2 USB interfaces (keyboard / barcode reader)
- RS232 interface



| Technical data:   | LG 3801D  | LG 3801E   | LG 3801F   |
|---|---|--|--|
| <b>Continuity test</b>  | voltage source, short-circuit proof   |  |  |
| <ul style="list-style-type: none"> <li>• test voltage</li> <li>• test current</li> <li>• resolution</li> <li>• evaluation</li> <li>• intrusion</li> <li>• accuracy</li> </ul>   | 24 V DC<br>0 – 600 mA<br>1 mA<br>MIN/MAX threshold<br>L ↔ N at socket<br>current: 1.5% v.E.   |  |  |
| <b>Protective wire test</b>   | programmable, fully electronic AC source, potential free, 4-wire measurement  |  |  |
| <ul style="list-style-type: none"> <li>• test current</li> <li>• no-load voltage</li> <li>• resistance measurement</li> <li>• resolution</li> <li>• evaluation</li> <li>• voltage measurement</li> <li>• intrusion</li> <li>• accuracy</li> </ul> | 10 – 30 A AC programmable.<br>6/12 V AC programmable.<br>till 20 AAC - max. 500 mOhm, at 25 AAC - max. 400 mOhm, at 30 AAC - max. 300 mOhm<br>1 mOhm<br>MIN/MAX threshold<br>0 – 4 V AC, evaluation depending on programmed cable cross-section (EN 60 204)<br>grounding contacts of socket against PE probe<br>resistance / current / voltage: 1.5% v.E. |  |  |
| <b>Insulation test</b>  | fully electronic power source, potential free (not LG 3801F), safety current limited <10 mA DC  |  |  |
| <ul style="list-style-type: none"> <li>• test voltage</li> <li>• resistance measurement</li> <li>• resolution</li> <li>• evaluation</li> <li>• intrusion</li> <li>• accuracy</li> </ul>   | 500 V DC<br><br>0.25 – 50 MOhm<br>0.1 MOhm<br><br>MIN threshold<br>socket: L+N ↔ PE or PE ↔ probe<br>resistance: 5% v.E., voltage: 2% v.E.<br>range 0.25–5 MOhm: 2.5% v.E.<br>range 5–50 MOhm: 5% v.E.  | 100–3000 V DC<br>progr., with ramp function<br>500 kOhm/V<br>100 kOhm voltage dependent<br><br>(see below)                                   |  |
| <b>High voltage test</b>  | fully electronic power source, potential free (not LG 3801F). safety current limited <10 mADC   |  |  |
| <ul style="list-style-type: none"> <li>• test voltage</li> <li>• current measurement</li> <li>• resolution</li> <li>• evaluation</li> <li>• intrusion</li> <li>• accuracy</li> </ul>  | not available   | 1500 V DC<br><br>max. 3.9 mA<br>0.01 mA<br><br>MIN/MAX threshold<br>socket: L+N ↔ PE or PE ↔ probe<br>current: 2.5% v.E.<br>voltage: 2% v.E. | 100 – 3000 V DC<br>progr., with ramp function<br>max. 3.9 mA<br>0.01 mA<br><br>(see below) |
| <b>Function test</b>  | 1-phase current measurement, external voltage feed-in   |  |  |
| <ul style="list-style-type: none"> <li>• test voltage</li> <li>• current measurement</li> <li>• resolution</li> <li>• frequency</li> <li>• evaluation</li> <li>• intrusion</li> <li>• accuracy</li> </ul>   | 0 – 400 VAC<br>4 A (optional 10 / 16 A)<br>0.01 A<br>50/60 Hz<br>MIN/MAX threshold<br>socket: L / N / PE<br>current: 1.5% v.E.  |  |  |
| <b>Accuracy &amp; Tolerance</b>   | (for LG 3801F)  |  |  |
| <ul style="list-style-type: none"> <li>• test voltage</li> <li>• current</li> </ul>   | repeatability between 100 V and 3000 V: ± 2% of nominal value<br>2.5% of max. value ± 0.01 mA   |  |  |
| <b>Features</b>   | 5.7" colour LC display , operation by rotary wheel or connected PC keyboard   |  |  |
| <ul style="list-style-type: none"> <li>• Interfaces</li> <li>• Memory</li> <li>• Dimensions/weight</li> <li>• Operating conditions</li> <li>• Voltage supply</li> </ul>   | RS-232: printer or PC remote control, USB: PC keyboard or barcode reader<br>Ethernet RJ-45 network connection, PLC, digital I/O, analogue I/O<br>dynamic memory management<br>14"3 HU, depth approx. 330 mm, 12.5 kg<br>temperature: 15 – 40°C / max. humidity: 70%<br>230 VAC ±10% / 50 Hz ; optionally also 115 VAC / 60 Hz                             |  |  |