

# PDL 310

## Part P Multifunction

### Digital Loop Tester

|                                                                                                                                                  |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Wiring Test</b>                                                                                                                               |                                                                                      |
| Detects missing E or N (>15kΩ)                                                                                                                   |                                                                                      |
| Detects L-E or L-N swap                                                                                                                          |                                                                                      |
| Detects Live - Earth/Neutral reversal by use of Polarity Test Pad                                                                                |                                                                                      |
| Fault indicated by chart on front of instrument                                                                                                  |                                                                                      |
| Phase - Neutral voltage measurement                                                                                                              | ± 1% ± 1V                                                                            |
| <b>Loop Test</b>                                                                                                                                 |                                                                                      |
| No trip mode 3 wire testing Phase - Neutral - Earth all connected                                                                                |                                                                                      |
| Test current <15mA at 253V AC                                                                                                                    |                                                                                      |
| <b>Range</b>                                                                                                                                     | <b>Accuracy</b>                                                                      |
| 0.00 to 9.99Ω                                                                                                                                    | ± 5% ± 5 digits                                                                      |
| 10.00 to 99.9Ω                                                                                                                                   | ± 4% ± 4 digits                                                                      |
| 100.00 to 500Ω                                                                                                                                   | ± 4% ± 4 digits                                                                      |
| <b>PFC Measurement</b>                                                                                                                           |                                                                                      |
| 10A - 9.99kA                                                                                                                                     | This is a calculated measurement whose accuracy is derived from the Loop Test result |
| High current mode 2 wire testing Phase-Neutral or Phase-Earth connected using true impedance measurement - auto test (hands free) is selectable. |                                                                                      |
| <b>Range</b>                                                                                                                                     | <b>Accuracy</b>                                                                      |
| 0.00 to 9.99Ω                                                                                                                                    | ± 5% ± 3 digits                                                                      |
| 10.00 to 99.9Ω                                                                                                                                   | ± 5% ± 3 digits                                                                      |
| 100.00 to 500Ω                                                                                                                                   | ± 5% ± 3 digits                                                                      |
| <b>Over Voltage Protection</b>                                                                                                                   |                                                                                      |
| 440V AC                                                                                                                                          | No damage - complete recovery                                                        |
| <b>Power</b>                                                                                                                                     |                                                                                      |
| 4 x AA batteries (not included)                                                                                                                  |                                                                                      |
| Battery life (BS EN 61557) > 10,000 test (or shelf life of batteries installed)                                                                  |                                                                                      |
| <b>Environmental</b>                                                                                                                             |                                                                                      |
| Operating Temperature Range . . . . . 0°C to 40°C                                                                                                |                                                                                      |
| Storage Temperature Range . . . . . -10°C to 60°C                                                                                                |                                                                                      |
| Operating Humidity . . . . . 80% @ 31°C to 50% @ 40°C                                                                                            |                                                                                      |
| Size . . . . . 157mm x 89mm x 39mm                                                                                                               |                                                                                      |
| Weight . . . . . 400g                                                                                                                            |                                                                                      |