

New
Product



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Digital Multimeter

Protek D705

Protek D705

Compact true-rms meter for field service technicians.

The Protek D705 is the solution for a wide variety of electrical and electronic testing applications.

It has to set with a combination of precision, ease-of-use, safety and reliability.

Features

- True RMS
- 25 segments bar graph
- Back-lit display (White LED)
- AC/DC μ A measurements
- Capacitance measurements
- Data Hold and Range Hold
- Auto Power Off function (30min)
- Diode and Continuity Beeper tests
- Frequency and Duty cycle measurements
- MAX/MIN/AVG mode (Sampling rate : 100ms)
- 5000 count LCD display (Black & White STN)
- IEC 1010-2-032, CATIII 1000V Safety protection
- K-Type thermocouple temperature measurements
- Measures DC Voltage to 1000V, AC Voltage to 1000V and Resistance to 40M Ω



Specifications

| | | | | | | | | |
|-----------------|-------------------------------------|---|----------------------------|------------------|------------------|--|---------------------------|--------------------------|
| DC Voltage | Range | 500mV | 5V | 50V | 500V | 1000V | | |
| | Resolution | 0.1mV | 0.001mV | 0.01V | 0.1V | 1V | | |
| | Accuracy | $\pm(0.09\%+2d)$ | $\pm(0.09\%+5d)$ | $\pm(0.09\%+2d)$ | $\pm(0.09\%+2d)$ | $\pm(0.09\%+2d)$ | | |
| AC Voltage | Range | 500mV | 5V | 50V | 500V | 1000V | | |
| | Resolution | 0.1mV | 0.001mV | 0.01V | 0.1V | 1V | | |
| | Accuracy | (45Hz ~ 500Hz) | $\pm(0.8\% + 5d)$ True RMS | | | | | |
| | | (500Hz ~ 1KHz) | $\pm(1.0\% + 5d)$ True RMS | | | | | |
| DC Current | Range | 500 μ A | 5000 μ A | 50mA | 400mA | 5A | 10A | |
| | Resolution | 0.1 μ A | 1 μ A | 10 μ A | 100 μ A | 1mA | 10mA | |
| | Accuracy | $\pm(1.0\% + 3d)$ | | | | | | |
| AC Current | Range | 500 μ A | 5000 μ A | 50mA | 400mA | 5A | 10A | |
| | Resolution | 0.1 μ A | 1 μ A | 10 μ A | 100 μ A | 1mA | 10mA | |
| | Accuracy | (45Hz ~ 500Hz) | $\pm(0.8\% + 5d)$ True RMS | | | | $\pm(1.5\%+10d)$ True RMS | $\pm(0.8\%+5d)$ True RMS |
| | | (500Hz ~ 1KHz) | $\pm(2.0\% + 5d)$ True RMS | | | | $\pm(2.0\%+10d)$ True RMS | $\pm(2.0\%+5d)$ True RMS |
| Resistance | Range | 500 Ω | 5k Ω | 50k Ω | 500k Ω | 5M Ω | 50M Ω | |
| | Resolution | 0.1 Ω | 0.001k Ω | 0.01k Ω | 0.1k Ω | 0.001M Ω | 0.01M Ω | |
| | Accuracy | $\pm(1.0\% + 5d)$ | | | | | | |
| Diode Test | Range | 2V | | | | | | |
| | Resolution | 0.001V | | | | | | |
| | Accuracy | $\pm(2.0\% + 5d)$ | | | | | | |
| Temperature | Range | -40 $^{\circ}$ C ~ 400 $^{\circ}$ C | | | | -40 $^{\circ}$ F ~ 752 $^{\circ}$ F | | |
| | Resolution | 0.1 $^{\circ}$ C | | | | 0.1 $^{\circ}$ F | | |
| | Accuracy | $\pm(3.0\% + 3.0^{\circ}$ C) | | | | $\pm(3.0\% + 5.4^{\circ}$ F) | | |
| Frequency | Range | 9.999Hz | 99.99Hz | 999.9Hz | 9.999kHz | 99.99kHz | 999.9kHz | |
| | Resolution | 0.001Hz | 0.01Hz | 0.1Hz | 1Hz | 10Hz | 100Hz | |
| | Accuracy | $\pm(0.1\% + 3d)$ | | | | | | |
| Sensitivity | Vpp \pm 300mV (Square wave input) | | | | | | | |
| Duty | Range | 1.0% ~ 99.0% | | | | | | |
| | Resolution | 0.1% | | | | | | |
| | Accuracy | 0.5Hz to 300KHz (Pulse width > 3 μ s) | | | | (0.1% + 0.05% per KHz + 1 count) for \pm 600mV p-p Square wave input | | |
| Capacitance | Range | 40nF | 400nF | 4 μ F | 40 μ F | 400 μ F | 4000 μ F | |
| | Resolution | 0.01nF | 0.1nF | 0.001 μ F | 0.01 μ F | 0.1 μ F | 1 μ F | |
| | Accuracy | $\pm(3.0\% + 10d)$ | | | | | | |
| Continuity Test | Range | 500 Ω | Threshold | Response time | | | | |
| | Resolution | 0.1 Ω | | | | | | |
| | Accuracy | $\pm(1.0\% + 5d)$ | Approx. 25 Ω | 1msec | | | | |