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# Fluke 117 service manual

**How to use fluke 117 multimeter.  Fluke 117 vs 77.  Fluke 117 meter manual.  Fluke 117 how to use.  Fluke 117 manual.  Fluke 117 instructions.**

May 2012 Rev.1, 06/15 Given article text here 1. Connect the product to a case bottom, followed by the installation of two screws. 2. Refer to Page 21 for specifications on surge protection (6 kV peak per IEC 61010-1, 600V CAT III, Pollution Degree 2). 3. For input A (115 & 117 only), use an 11 A, 1000 V FAST fuse (Fluke PN 803293) and a W Fuse. 4. The product features digital measurements with 6,000 counts and updates at 4/sec. 5. A bar graph is displayed with 33 segments, updating at 32/sec. 6. Temperature measurements are specified on Page 22. 7. Certifications include UL, CSA, TÜV, N10140), VDE, and an IP Rating of (dust and water protection) IP42. 8. For accuracy specifications, refer to Table 1: - DC millivolts: ±0.5% + 2 counts for the 114 model - AC true-rms multimeters: ±1.5% + 3 counts for the 115 and 117 models (20 A for 30 seconds max., 45 Hz to 500 Hz, 10 minutes rest min.) 9. The product has an input impedance of 1 kΩ unbalanced and a common mode rejection ratio of >60 dB at dc, 50 or 60 Hz. 10. For display specifications, refer to Table 2: - Input Impedance: >5 MΩ - Common Mode Rejection Ratio: 60 dB at 50 or 60 Volts DC The safety guidelines for using the clamp meter are outlined in the user manual. To prevent electrical shock or personal injury, users must adhere to specific precautions: utilize the product as intended and employ probes and test leads rated for correct measurement categories, voltages, and amperage. Avoid exceeding rated voltage levels between terminals or earth ground, and comply with local and national safety codes. Personal protective equipment should be worn when working with exposed live conductors. Proper connection of test leads, probe removal before battery door opening, and battery removal to prevent leakage are also crucial. The user manual includes a table explaining various symbols used in the product's documentation. The product specifications include maximum voltage between terminals and earth ground (600 V), operating temperature (-10 °C to +50 °C), storage temperature, weight, safety certifications (IEC 61010-1, CATIV 300V/CATIII 600V), IP rating (IEC 60529: IP30, non-operating), and electromagnetic compatibility standards. Users should note that the equipment may emit electromagnetic radiation exceeding CISPR 11 levels when connected to a test object. Additionally, the product meets Korea's Class A Equipment requirements for industrial broadcasting and communication equipment. The user manual also provides information on cleaning the product regularly using a damp cloth with weak detergent. (0.01, 0.1) A Accuracy: ±2.0 % (5 digits), AC Voltage Range: 600.0 V, Resolution: 0.1 V, Accuracy (45 Hz– 400 Hz): ±1.5 % (5 digits), DC Voltage Range: Page 44, Users Manual Continuity Beeper: ≤70 Ω (323), ≤30 Ω (324/325), Capacitance (324, 325): Range (100.0, 1000) µF, Resolution: (0.1, 1) µF, Accuracy: ±1 % (4 digits), Frequency with Jaw (325): Range: 5.0 to 500.0 Hz, Page 45 Clamp Meter, The Meter, gtq008.eps... Page 46, Users Manual, MAXMIN, 324/325, gtq001.eps... Page 47, Clamp Meter, The Meter, 2:00, 2:00, gtq002.eps... Page 48, Users Manual, 600 V, 600 V, 300 V, 300 V, TRUE RMS CLAMP METER, TRUE RMS CLAMP METER, 600 V, 600 V, 300 V, 300 V, gtq003.eps... Page 49, Clamp Meter, The Meter, 323 V dc - 323 V ac - 324, 325 V dc & V ac - >30 V, 300 V, gtq004.eps... Page 50, Users Manual, 600 V, 600 V, 300 V, 300 V, TRUE RMS CLAMP METER, TRUE RMS CLAMP METER, 600 V, 600 V, 300 V, 300 V,