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## Fieldpiece hs36 calibration

12-07-2011, 9:02 #1 My HS 36 it does not read properly Mfd. with fluke meter a cap with 0.9 Mfd's read 0.9.my fieldpiece will read 1.1 Mfd. ohm reading also higher 3 ohm. is there a way to recalibrate my meter? thanks 12-07-2011, 21:59 #2 If the actual mfd is 1.1 then you will make a mistake by changing the calibration. 12-07-2011, 23:46 #3 Originally Posted by cfe My HS 36 it does not read correctly Mfd. with fluke meter a cap with 0.9 Mfd's read 0.9.my fieldpiece will read 1.1 Mfd. ohm reading also higher 3 ohm. is there a way to recalibrate my meter? thanks I know you can recalibrate temp measures, but nothing else. I know there's a fieldpiece rep who posts around here, if you can find him, PM him and see what he says. I have called their offices in CA - they are very useful. Numba Hmmm ... smells nummento to me. 12-08-2011, 10:33 pm #4 Originally Posted by hvacmedic If the actual mfd is 1.1 then you will make a mistake by changing the calibration. cap is actually 0.9 Mfd. but my fieldpiece read 1.1 Mfd. I use other meters to compare which is fluke and Stanley both read 0.9 Mfd. so I know my fieldpiece not exactly, it is about 4 years old and only noticed recently. \$485.88 inc GST Estimated delivery between and over . DOWNLOAD BROCHURE Fieldpiece's top of the line True RMS Stick Meter, Fieldpiece HS36 Expandable True RMS Stick Multimeter with backlight includes the areas you use every day for HVAC/R field service plus includes a bright blue backlight and True RMS. Like the rest of the HS30 series, the Fieldpiece HS36 is equipped with a magnetic hanger, along with detachable silicone test cords and alligator clamping tips for remote and easy one-handed testing, as well as the entire set of built-in safety features. Fieldpiece HS36 auto-ranging stick meter also contains a bar graph on lcd for an analog feel. Technicians who prefer Fieldpiece's expandable pin meters tell us that this is the best digital multimeter for HVAC/R field service. Fieldpiece HS36 is unlike any other found in HVACR. It contains a number of security features, both those you can and can't see, in the meter. In addition, HS36 accepts modular test instrument accessory heads, so you have more testing options without buying many expensive instruments. FEATURES AND CAPABILITIES Non-contact Voltage High voltage and continuity Indicators Microamps Capacitance MIN / MAX Temperature Silicone cords with detachable probe tips Robust ABS case with rubberized bumpers Built-in magnetic hanger allows you to test with one hand or none Built-in lead storage Ergonomic shape fits naturally in hand Automatic kick-off (APO) to save battery life Display: 33/4-digit lcd display (liquid crystal display) with a maximum reading of 3999. Analog bargraph: 41 segments with measurements 20 times per second. Range (RNG): Manual all (HS35) Upper organ: Olympic indication. Automatic kick-off: 30 minutes. Operating environment: 0 to 50 °C at &l; 70 % R.H. Storage temperature: -4 to 140 °F (-20 to 60 °C), 0 to 80 % R.H. with the battery removed. Accuracy: Specifications good under ambient conditions of ± 23°C ± 5°C), &l; 75% relative humidity. Temperature coefficient: 0.1x (specified accuracy) per °F/°C. (0 to 18 °C), 82 to 28 to 50 °C). Power: Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22. Battery life: 300 hours typically with alkaline. Accessories: One pair of test cords, one pair of alligator clips, k-type thermocouple, 9V battery (installed) and instructions for use. Security: UL, CE, Cat III600V, UL61010-1, IEC / EN61010-1 What included? 1 x 400A Amp Clamp Accessory (ACH4) 1 x Deluxe Silicone Test Leads (ADLS2) 1 x Short Alligator Lead Extensions (ASA2) 1 x Deluxe Meter Case (ANC1) 1 x 9-Volt Battery (installed) 1 x Operator Manual AUTHORIZED DEALER Buy with 100% confidence to know that the purchase is supported by the entire manufacturer's warranty. BROWSE AND ADD TO CART TODAY. Non-contact voltage With the red NCV tab at the tip of the meter near an AC voltage, press and hold the NCV button. The NCV lamp lights up and the beep is beeping. The bricks you get to the AC voltage, the higher the beeps. The NCV function is sensitive enough to detect 24VAC on thermostats. High voltage indicator In any VAC/VDC area, when you touch a voltage greater than 30 V, beeps beep beeps beep and the red Hi-V lamp flashes. be careful! Microamps For measuring the flame diode current in a heater control. Capacitance For engine start and motor-driven capacitors. Disconnect the condenser from the power first. Short terminals to empty the capacitors. Disconnect any resistor that may be between the terminals of the condenser. MIN/MAX Press MIN/MAX once to start recording MIN and MAX. Press MIN/MAX to select MIN or MAX for the current reading. Hold down for 2 seconds to end the MIN/MAX break. Temperature Plug any K-type thermocouple directly into the meter to measure the temperature. Temperature targets will be accurate even in rapidly changing envy due to excellent temperature compensation. A thermocouple is included. No adapter required. Backlight (HS36) Press the button to activate the backlight for about 60 seconds. True RMS (HS36) Digital multimeters use two different types of AC detection. The most common is average sensing, or malized to a true RMS value of a sine wave. The second is true RMS sensing. The actual true RMS value is marked for a waveform within the limits of the crest factor. Either sensing method will give the same results on a pure sine wave, but they can dif-fer on a non-sine-shaped waveform. Field °F calibration For accuracy of ± 1°F, calibrate to a known A glass of stabilized ice water is very close to 32.32 (0°C) and is usually very convenient, but any known temperature can be used. 1. Select the 400°F range. 2. Remove the back cover and hold the battery in place with a rubber band so that the clamps touch. 3. Stabilize a large cup of ice water. 4. Lower the thermocouple probe and let it stick. 5. Adjust the VR3 (lower-right corner of the PCB) to get close to 0°C, and then adjust the VR2 (left of VR3) to get within 0.1°F (0.05°C) at 0°C. To calibrate in °C, close the sweater to the left of vr3. Turn off auto off Set to OFF position, press and hold the RNG button (HS35) or the MIN/MAX button (HS36) while turning the turntable to the desired area position. Release the button when LCD is displayed normally. Note: APO annunciator is missing from the display. Auto Power Offmode is on when APO appears on the display. Attach to the Fieldpiece accessory head Connect the fieldpiece accessory head directly to the top of the HD series and switch to the range indicated by the head. Visit [www.fieldpiece.com](http://www.fieldpiece.com) for more information. Symbols used: Caution, risk of electric shock Caution, see instructions for use. Ground Double insulation Using and storing test lines Because the wire insulation is silicone, the wires will remain flexible in cold weather and will not melt if they are cast iron. Disconnect the top half of the test lead and plug tip directly to the meter to make voltage testing easy. Use unresolved alligator clips (ASA2) as shown for even eas-ier operation. For convenient lead storage, pack the wires as shown. Pull the wires around the front between imminent tips, twist and pull over one of the lead plugs. USER MANUAL FOR YOUR SAFETY... General: Disconnect the test leads before opening the case. Inspect the test leads for damage to inspection or exposed metal. Replace if it's suspected. Never ground yourself when you take electrical targets. Do not touch exposed metal pipes, outlets, fixtures, etc., which may be on the ground potential. Keep the body isolated from the ground using dry cloth, rubber shoes, rubber mats or approved insulating materials. When disconnecting a cir-cuit, disconnect the RED wire first, then the com-mon wire. Collaborate with others. Use one hand for testing. Turn off the power to the circuit during test before cut-things, unsoldering, or breaking the circuit. Keep your fingers behind the finger protectors on the probes. Do not measure resistance when the circuit is switched on. Do not use more than nominal voltage between input and ground. All voltage tests: All voltage ranges can withstand up to 600 V. Do not apply more than 600VDC or 600VAC. AC tester: Disconnect the meter from the circuit before turning off an inducer, including motors, transformers and magnets. High voltage transients can damage the meter beyond repair. Do not use electric storms. Maintenance Clean the outside with clean, dry cloth. Do not use liquid. Replacing the battery: When battery must be replaced. Disconnect and disconnect the wires, turn off the meter and remove the bat cover. Replace the battery with a NEDA type1604 9V battery. Limited warranty This meter is guaranteed against defects in matter or workmanship for one year from the date of pur-chase. Fieldpiece will replace or repair defective device, at its option, subject to verification of the defect. This warranty does not apply to errors resulting from misuse, neglect, accident, unauthorized repair, alteration or unreasonable use of the Instrument. Any implied warranties arising out of the sale of a Fieldpiece Product, including, but not limited to, limited warranties of merchantability and fitness for aparticular purposes, are limited to the above. Fieldpiece shall not be liable for any loss of use of the Instrument or any other incidental or consequential damages, expenses or financial loss, or for any claim of such damage, expense or financial loss. State laws vary. The above limitations or limitations may not apply to you. Service Return any defective HS35/36 to Fieldpiece for warranty service along with proof of purchase. Contact fieldpiece for repair costs outside the warranty. [www.fieldpiece.com](http://www.fieldpiece.com)! AUTO-RANGINGDIGITAL STICKMETERS: HS35 HS36 Function Legend Continuity VDC Volt DC MFD Capacitance °C/°F Temperature µADC Microamps DC Ω Resistance Hz Frequency VAC Volt AC v08 This manual is related to the following products: products: