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Printed in China v052716... LCD DISPLAY OVERVIEW Figure 2 - LCD Display LCD Display Descriptions 1. Page 14 Capacitance .... Description: Query the tolerance mode Return: CALCulate:TOLerance:NOMinal? In general, inductors below 2 mH should be measured at 1 kHz frequency while inductors above 200 H should be measured at 120 Hz. Some inductors are intended to operate at a certain DC bias to achieve a certain inductance value. The mini USB communication interface of the meter is designed in full duplex and has a 64-byte input and output buffer, making it reliable and efficient for data transmission. In relative humidity conditions outside the instrument's specifications. Page 35 Using the arrow keys to add or minus the time by 1. Press down button for one second to turn on the meter. Connecting a charged or partially charged capacitor to the input terminals will damage the instrument. SPECIFICATIONS Below are some remarks in regards to all specifications pertaining to the 880 LCR meter. Page 61 Inductance (L) and Quality Factor (Q) Accuracy Recommended Range Display Range Equivalent Mode De * 1000H 400.0H1000.0H 1%+3 digits 1.00%+3 digits Parallel 400H 40.00H399.99H 0.35%+2 digits 0.35%+2 digits Parallel 4.000H39.999H 0.1%+2 digits 0.1%+2 digits Parallel 400.0mH3.9999H 0.1%+2 digits 0.1%+2 digits ---- 400mH 40.00mH399.99mH... Page 53 CALCulate subsystem CALCulate:TOLerance:STATe < ON | OFF > Description: Enable or disable tolerance mode Example: CALCulate: TOLerance:STATe ON CALCulate:TOLerance:STATe? Either open or short calibration is not associated with measurement function, therefore changing the test function does not require re-calibration. Page 65 Equivalent Series Resistance Accuracy of equivalent series resistance is calculated according to the below formula: Rse = : Actual impedance, φe is the phase angle accuracy, Notice: The accuracies of ESR and Rs are same. The USB will be recognized as a virtual COM on the PC, thus serial port settings must be configured properly for remote communication to be successful. warrants to the original purchaser that its products and the component parts thereof, will be free from defects in workmanship and materials for a period of three years from date of purchase. REMOTE COMMUNICATION The meter has the capability to communicate with a PC over the mini USB interface. At the same time, error code will be displayed on LCD and beep will be sound. To minimize the effect of such biases, measure the DC resistance with normal and reversed test lead polarity and algebraically average the results, even if one of the measurements results in a negative resistance. TOL –Tolerance mode indicator 30. 3. Long time pressing arrow keys can move the current cursor to left or right. 100kHz Handheld LCR Meter The BK model 880 40,000-count handheld LCR meters measures inductance, capacitance, and resistance quickly and precisely. Connecting External Power Source The 880 can also be powered using an external AC adapter. Safety Symbols Refer to the user manual for warning information to avoid hazard or personal injury and prevent damage to instrument. Additionally, one measurement mode may provide better accuracies over the other measurement mode depending on the type of component and the value of the component to be tested. Failure to do so may damage the instrument, lead to a safety hazard, or cause a fire. Additionally, the 880 also measures impedance, Theta, and ESR, features typically only found in bench LCR meters. Failure to use the specified fuses will void the warranty. Page 8 Measurement of DC resistance in circuits that contain small DC biases (for example, thermoelectric voltages) can produce incorrect results. This LCR meter provides a 40,000-count primary parameter reading and a secondary parameter reading with a resolution of 0.0001 with an accuracy of up to 0.1%. Measurement data can continuously transfer to a PC via the meter's mini USB interface, using either the provided data logging software or SCPI commands sent from a custom program. Shipment It is recommended that you retain the original packing that the instrument was shipped in. With this measurement method, a test frequency must be selected. 2. The component to be tested will be verified with the tolerance within the selected % of the "standard"... Setup Tolerance Mode 1. Press the button for 2 seconds to turn the instrument on. Safety Guidelines To ensure that you use this device safely, follow the safety guidelines listed below: This meter is for indoor use, altitude up to 2,000 m. Equivalent Parallel Resistance Accuracy of equivalent series resistance is calculated according to the below formula: ... Please contact B&K Precision for assistance. Refrain from further operation until the fuse is replaced. 1 Safety Guidelines ....7 Safety Symbols .... "AUTO" indicator on LCD will disappear when auto LCR mode is turned off. Enter CAL Mode For convenience, OPEN CAL and SHORT CAL are designed to share a button. For large capacitors, it may take longer periods of time for a full discharge. AVG – Average reading indicator in the record mode 4. Note: Be sure to select the correct measurement mode, as tolerance mode cannot be activated unless the correct mode is selected. 28 Parallel and Series Measurement Mode .... TABLE OF CONTENTS Safety Summary .... 14 Front Panel Display Descriptions ....14 Front Panel Buttons .... Below defines the error description based on the error code. FAST- Fast/Slow measuring rate indicator Special Display Indicators Indicates short connectors Error indication Indicates open connectors Error indication Indicates calibration mode Indicates damaged or open fuse AD converter error AD converter error... Test Port The 880 is designed with two test ports: the 3-terminal port for convenience and a 5-terminal port for higher accuracy. Press button until "R" is on the screen to select resistance measurement. Exiting without Saving If user decides to exit the utility menu without making any changes or saving any changes to "PuP"... If a battery is fully charged, then the 880 will stop charging the battery. button until "DCR" is displayed on the screen to select direct current 2. Manual power off only Table 3 - Auto Power-Off Options Default Setting: 5 mins When the auto power-off option is set to any of the configured settings in Table 3 above (Error! Reference source not

found.except for "OFF"), upon exiting the utility menu the LCD display will have a "@OFF"... The test frequency can affect the accuracy of the results depending on what frequency is selected, and what type and value of component is being measured or tested. Page 69 (Page intentionally left blank) Page 71 22820 Savi Ranch Parkway Yorba Linda, CA 92887 www.bkprecision.com © 2016 B&K Precision Corp. Features of the BK880 40,000 counts resolution on primary and 10,000 counts resolution on secondary display L, C, R, and Z primary measurements Automatic calculation of secondary parameters D, Q, Theta, ESR, and DCR Accuracy up to 0.1% and selectable test frequencies up to 100 kHz Fast auto range design for rapid, easy component measurements Auto detect mode for automatic component type identification and measurement type selection Relative mode Visible and audible tolerance mode Backlit display Data Hold and Min/Max/Average recording USB (Virtual COM) interface SCPI compliant commands for remote communication Software for datalogging and front panel emulation available as free download Configurable power-up-states Applications Passive component troubleshooting Electronic assembly Quality control (component sorting) Page 1 Model Dual Display LCR METER INSTRUCTION MANUAL... In environments where there is a danger of any liquid being spilled on the instrument or where any liquid can condense on the instrument. Default Setting: No To reset the meter to default settings, first select the "dEF" menu option by using the use button to browse through the utility menu. Fast auto ranging and quick measurement configuration such as measurement parameter and test frequency selection make the 880 very simple to operate. Insert impedance (resistor, capacitor or inductor) into test slots or connect tested impedance through a proper test accessory (i.e., banana plug-crocodile clip test leads, test fixture or SMD test tweezers). Max. Command Reference *IDN? Note: Alternatively, auto fetching mode can be disabled when a remote command is sent to the instrument, turning it back into remote mode. Return the product in the original packaging with proof of purchase to the address below. Query the primary display parameter :impb ... Measurement performed at the test socket. will, without charge, repair or replace, at its option, defective product or component parts. Secondary display mode (D/Q//ESR, etc.)/ Test Level 6. Before entering into the utility menu, configure all the settings and parameters desired for power up state. Saving and Exiting To save all utility menu option settings and to exit the menu, press and hold down the button for 2 seconds. Page 5 In the presence of noxious, corrosive, or flammable fumes, gases, vapors, chemicals, or finely-divided particulates. If the instrument still cannot work, verify with the operating instructions to make sure correct procedures are followed. 8 Compliance Statements ....9 TABLE OF CONTENTS ....10 INTRODUCTION ....

Compliance Statements Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems) This product is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE), and in jurisdictions adopting that Directive, is marked as... Upon installation of a USB driver, the PC can control the instrument over virtual COM (RS-232). This configuration has lower testing accuracy when compared to the 5-terminal test port. Capacitance(C) and Dissipation (D) Recommended Accuracy Display Range Range Equivalent Mode 20mF 4.000mF20.000mF 5%+5 digits 5%+5 digits Series 400.0μF3.9999mF 1%+3 digits 1%+3 digits Series 400μF 40.00μF399.9μF 0.35%+2 digits 0.35%+2 digits Series 40μF 4.000μF39.99μF 0.1%+2 digits 0.1%+2 digits Series 4μF 400.0nF3.9999μF 0.1%+2 digits 0.1%+2 digits ----... If test frequency is changed, calibration should be done again before making precision measurements. @OFF –Auto power-off indicator 28. Current: 100mA (typical) Operating Current (with Max.:35mA backlight off) Typical:25mA (@1kHz, 0.6 Vrms,100Ω load) Standby Current (Power Max.) Page 4 You must ensure that each accessory you use with this instrument has a category rating equal to or higher than the instrument's category rating to maintain the instrument's category rating. In a relatively stable range of test data, a beep tone will sound once a recording has been stored. Verify that the voltage selector at the line power cord entry is set to the correct line voltage. Not for critical applications This instrument is not authorized for use in contact with the human body or for use as a component in a life-support device or system. B&K Precision Corp. Service should only be done by qualified personnel and trained technicians. 31 Utility Menu (UTIL) ....31 Entering Utility Menu .... Test Frequency (FREQ) The 880 LCR meter uses an AC signal to test and measure components at the input sockets or terminals. Use with improper power adapters may damage the instrument. Description: Query the nominal value Return: NR3 or ----(exceeding data range) CALCulate:TOLerance:VALUe? In this event, the RMT indicator will appear on the LCD display, and auto fetching will be disabled automatically. When the primary display shows "dEF", either press button to change the setting so that the secondary display shows "yES". 6. Additionally, the 880 offers capabilities typically only found in bench LCR meters such as a 4-terminal configuration, basic measurement accuracy up to 0.1%, test frequencies up to 100 kHz, and selectable test signal levels. Responding Message Returned result After the meter executes a query command, the return of the result will be in the following format: + For example, in auto fetching mode, the meter will send the measured data automatically when the measurement cycle is completed. When measuring within a circuit, the circuit must be de-energized before connecting the test leads. However, the 880 LCR meter cannot produce such biasing scheme and external biasing should not be attempted because external power would be applied to the instrument and cause serious damage to the meter and may cause electrical to its original settings. Frequency and record mode selection 5. Backlit Display Model 880 LCR meter has a backlit display that allows you to see the LCD display in dark conditions. These parameters are: D (Dissipation factor), Q (Quality factor), θ (Phase angle), and ESR (Equivalent series resistance). Note: For external power, use AC adapter rated for output 12VDC, 150mA, center pin positive 4mm connector only. 2 seconds to turn on the instrument. Description: Query the percentage value of tolerance Return: NR3 or ----- (exceeding data range) Page 54 CALCulate:RECording:AVERage? Query instrument ID. There are two functions under CAL Mode: Open Cal will reduce the effects of contact resistors and test leads. Direct Current Resistance (DCR) Measurement 1. Description: Query the present value of recording function Return: (primary and secondary parameters, when data exceeds limits or there is no data, what returns is"----".) FETCh Subsystem FETCh? Press button until "C"... VAT) Counts 40000 Ranging Automatic Types LCR Meter Interface USB In stock Add to compare The B&K Precision model BK880 40,000-count handheld LCR meters measures inductance, capacitance, and resistance quickly and precisely. Page 62 Quality factor Q and Accuracy Qe is calculated by the following formula: ≤ 1 , is the measurement value. There are two methods to power the instrument: Battery and external source. Page 36 SECONDARY REPRESENTATION DISPLAY 5 minutes 15 minutes 30 minutes 60 minutes No timer. Page 34 Menu Options Settings/Parameters dCdly DCR trigger delay bEEP ON / OFF AoFF 5 / 15 / 30 / 60 / OFF PrE / Set yES / NO bAtt Battery Voltage Table 2 - Utility Menu Options and Settings The 6 menu options allow users to control or check the following options: ... The meters use a standard 9V size battery (or NEDA 1604, JIS006P, IEC6F22 carbon-zinc or alkaline battery) or a rechargeable Ni-MH battery. USB communication / *Back light button 3. Page 42 Figure 11 - Inductance Measurement Setup... Clearly state on the RMA the performance problem and return any leads, probes, connectors and accessories that you are using with the device. To select the tolerance range, press the button once more. Failure to do so will lower the category rating of the measuring system. 29 Default Settings ....29 Selecting Measurement Mode................................29

Inserting a charged or partially charged capacitor into the meter's input sockets or terminals may produce an electric hazard and may also damage the instrument, making it unusable. Short Cal will minimize the influence of distributed capacitors and resistors on testing high impedance elements. Service If the instrument fails to operate, check battery and test leads. Once calibration is done on a selected test frequency, calibration data will remain until power off. Use power adapter only when there is a rechargeable battery inserted or when there is no battery. Replace them as necessary. Electric Shock hazard Alternating current (AC) Chassis (earth ground) symbol. Figure 8 - Short Calibration Notes: 1. MAINTENANCE Do not perform any service by yourself. Power ON/OFF button 4. Find the settings used by the 880 meter below: Baudrate: 9600 Data bits: 8 ... See "Installing Battery" for instructions. 13 PACKAGE CONTENTS ....13 FRONT PANEL OVERVIEW .... Description: set the current test level Return : FUNCtion subsystem FUNCtion:impa < L | C | R | Z | DCR > Description: Select the primary parameter Example: FUNCtion:impa L Selects L as the primary parameter... NOTE: When the data fluctuation range is higher than 1%, data record will dynamically be refreshed. To turn on the back light, press and hold down button for 2 seconds. Capacitance Measurement Fully discharge capacitor BEFORE inserting it into the instrument. Failure to do this may result in damage to the meter and may cause electrical hazards. AC Adapter: DC 12 Vmin –15 Vmax. The setup is promptly effective once modified. INTRODUCTION B&K Precision's 880 handheld LCR meter is designed for measuring the inductance, capacitance and resistance of components. Single charge cycle is about 160 minutes and charge current is approximate 120mA. *Specifications are subject to change without notice. Page 52 VOLTage subsystem VOLTage Description : set the current test level (only effective in L,C,R,Z) Parameters are 0.3, 0.6, 1 or 3e-1,6e-1,1e0 Example : VOLTage 0.3 Set the test level to 0.3 V VOLTage. The meter also includes handy functions such as data hold, Min/Max/Average recording, tolerance sorting, and relative mode. The replacement of current-measurement mode protection fuses in multimeters is especially important. This means that all front panel buttons, including the RMT key is not available. Clean the instrument only with a clean dry lint-free cloth or as instructed in this manual. Page 37 Auto LCR Tolerance mode state Reference value for Tolerance mode Configure and Save Power-up State Follow the below procedure to setup and store a power-up state into internal memory. Note: Use with included power adapter only. 1V 0.6V 0.3V- Display test level 29. OPERATION INSTRUCTIONS WARNING: If the component to be measured is a capacitor, be sure that the capacitor is fully discharged BEFORE inserting it into the input sockets or terminals. WARNING: DO NOT connect to external power when a non-rechargeable battery is installed. Impedance Measurement 1. After this, the meter will exit the menu, and all settings will be saved. SERVICE INFORMATION Warranty Service: Please go the support and service section on our website www.bkprecision.com to obtain a RMA #. To re-enabled auto fetching again in this state, first press the button once to exit out of remote mode and return to local mode. Insert component into the input sockets or connect alligator leads into the banana jack input terminals and connect the clips to the component leads as illustrated in Figure 15 - Impedance Measurement Setup 4. (Load 50 mA Min.) Operation Condition Temperature... Error Codes If codes or parameters, originated from bus and transmitted to the meter, are fault, the meter will terminate the analysis and execution codes. ( ) ( ) Impedance and Phase Angle θ Accuracy Recommended Range Display Range e Equivalent Mode 1.75 10M 4.000M10.000M 3%+5 digits Parallel 0.75 4M 400.0k3.9999M 1%+3 digits Parallel 0.25 400k 40.00k399.99k 0.35%+2 digits Parallel 0.1 40k 4.000k39.999k 0.1%+2 digits Parallel 0.1... Depending on which mode is selected, the method used to measure the component will be different. Page 40 the meter, remove external AC adapter if used and/or remove the battery from the battery compartment. Electrical Power This instrument is intended to be powered from a CATEGORY II mains power environment. MAX – Maximum reading indicator in the record mode 2. Apply all the listed safety precautions. 56 SPECIFICATIONS ....57 General Specifications ....57 Accuracy Specifications ....58 Testing Conditions: .... :11μA (typical) Off) Power Requirements 1) DC 9V Battery 2)Ext. This is done by pressing the button to configure the desired measurement mode. Page 13 Measurement Rate (RATE) .... The model 880 comes with this adapter included in the package. 5-terminal test slot 3-terminal test port High Potential Low Potential Protect Potential Figure 3 - Test Ports The standard banana plugs allow the connection of banana to alligator test lead. AC Resistance Measurement 1. Description: Query the average value of recording function Return: (primary and secondary parameters, when data exceeds limits or there is no data, what returns is"----".) CALCulate:RECording:PRESent? Recording State This is the default mode when static recording is enabled. Press button on second to turn on the meter. Select the primary measurement mode based on the type of components to be measured. Query the Test Frequency VOLTage Set the Test Level VOLTage? If *LLO is sent, the only way to operate front panel is to go to *GTL. Query the Test level FUNCtion :impa Select the primary display parameter :impa? Insert resistor or resistive component into the input sockets or connect alligator leads into the banana jack input terminals and connect the clips to the component leads as illustrated in Figure 13 –... LCD display 2. MIN – Minimum reading indicator in the record mode 5. Secondary Parameter (SEC) The secondary display of the LCR meter is used to display measured values of four parameters, which provide additional information about the component being tested. 58 Capacitance(C) and Dissipation (D) ....61 ( ) (θ) Impedance and Phase Angle .... Return: , , *LLO Local Lockout. NOTE: when the setting is not 0000, the higher the setting time, the DCR measurement speed becomes more slowly. *WARNING: Before connecting an external power adapter, please check the battery compartment in the rear side of the unit. FRONT PANEL OVERVIEW Figure 1 - Front Panel Display Front Panel Display Descriptions 1. LIMITED WARRANTY B&K Precision Corp. Counts 40000Ranging AutomaticTypes LCR MeterInterface USB£374.00 (£448.80 incl.

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