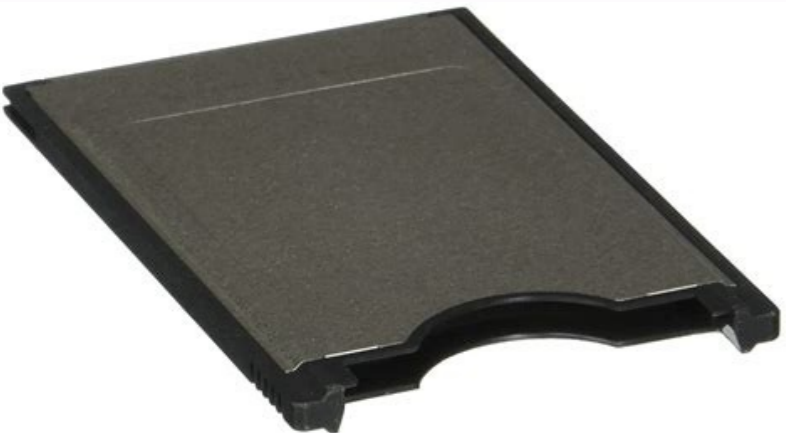
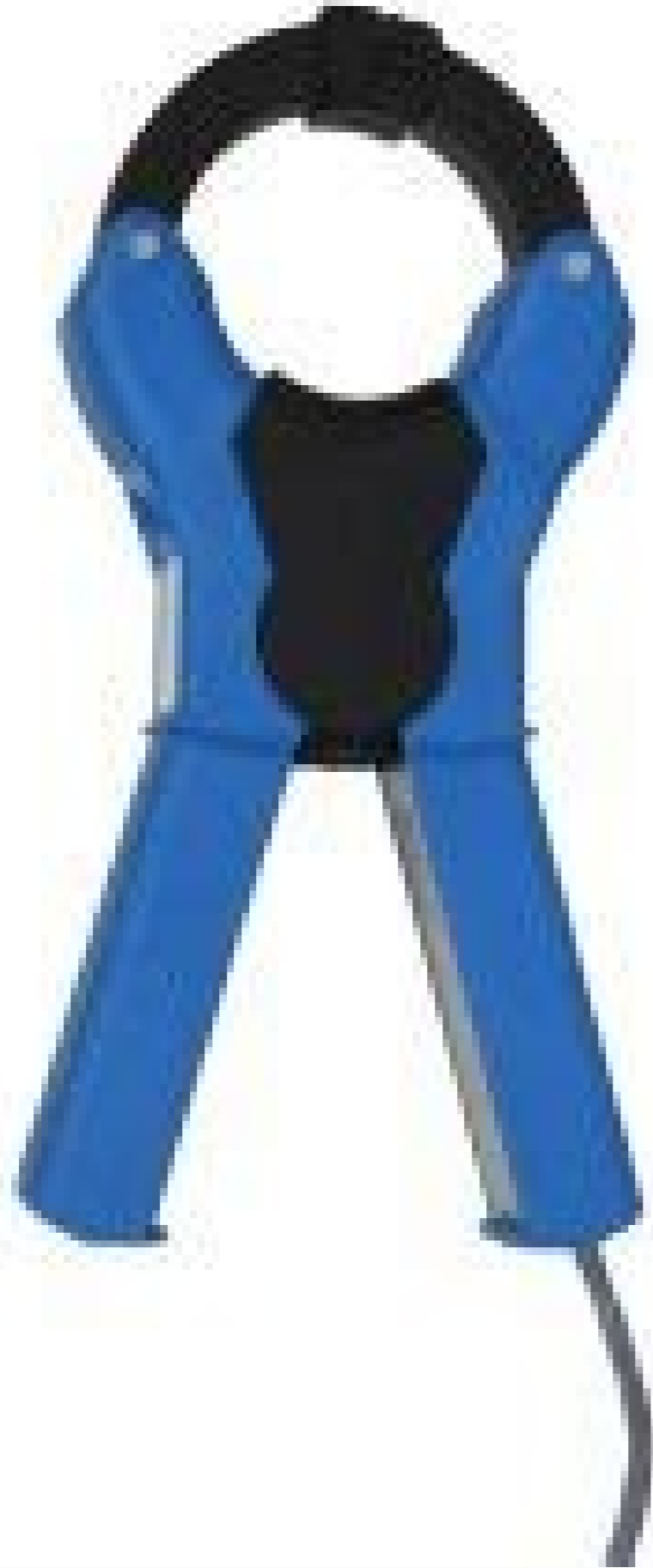


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Pacific Test Equipment Unit 27, 7 Anella Ave Castle Hill NSW 2154 Alternative Rental Solutions This is a precision instrument with the advantage of being able to measure dc and ac voltage. The supplied clamps only measure ac, so if you need to do ac/dc measurements you should include the Hioki 3285 Clamps. Notes: Phase Colour Instrument Colour Signal Name Red Red Phase A White Yellow Phase B Blue Blue Phase C Grey Grey Neutral D Use ONLY their supplied flash cards If using the supplied clamps they only last 5 days on 2x AA batteries Only use slot2 for the memory card (Slot1 is for firmware upgrades) Great care must be taken to NOT confuse the different voltage and current measurements. All the current clamps must be pointed in the same direction Getting Going Press Start Select the Wizard Select the appropriate clamps and scaling for each phase. (The standard supplied clamps are RR3035A. These DO NOT do dc measurements) The scale factors are all left as one Select for the appropriate wiring configuration Set the appropriate frequency and voltage (Star 240 V, Delta 415 V etc...) Delta Wiring When a delta wired connection is made great care must be taken to get the correct orientation with the wiring in order to make the subsequent phase calculations relevant Different transformers will be wired differently so care must be taken when each is wired in the 'Circuit Type Selection' select '3 Phase Delta' Click the 'Phaser' button Connect the A phase and check the A phase is shown at approximately zero degrees on the diagram Connect each voltage and confirm they are the following angles: A Phase Voltage approximately 0 Degrees B Phase Voltage approximately 240 Degrees C Phase Voltage approximately 120 Degrees Check the manufacturers plate, on that a phase angle will be referenced. This phase angle is the angle between the voltage and the current. If the phase angle is for example 30 degrees on the phase diagram the angle of each current will be 30 degrees i.e. A Phase Current approximately 30 Degrees B Phase Voltage approximately 270 Degrees C Phase Voltage approximately 150 Degrees Triggering Notes One of the traps some people fall into is the logging of a large number of triggered events which means that the meter takes many minutes to 'write data to card'. In extreme (i.e. triggering on nearly every cycle) cases the meter can lock-up. When data transfer is complete the home page text line 'Monitoring Status' says 'Done' and this is when the card can be removed without loss of data. For applications where triggered events are NOT required e.g. steady state voltage, power, energy, harmonics, etc. investigations, the Setup Wizard step 'Choose Monitoring Mode' it is best to select 'Long Term Timed recording' as all triggered events are disabled. If triggered events are required then great care must be taken with the setup starting with setting the nominal values (voltage, frequency, and perhaps current if current triggering is to be used) in the Setup Wizard step 'Nominal Values'. Monitoring Mode would be Standard PQ and the settings in Wizard 'Advanced Options' tabs for 'Transients' and 'RMS Variations' must be carefully thought about. Once monitoring is active the home page text line 'Cycles saved' MUST be observed to ensure that the number of cycles being stored (based on the number of triggered events logged) is NOT rapidly increasing. If the 'Cycles saved' is increasing at a greater rate than expected, STOP monitoring, review the stored events and adjust the trigger limits accordingly. Restart and repeat. Of course this will not prevent something happening later but at least the start is OK. In situations where access to the meter is not possible once the equipment is operational, the RS232 or Ethernet remote comms options that you have can be of assistance. Additional Resources User Manual (pdf) Page 1 PowerGuide 4400 © USER'S GUIDE DRANETZ 1000 New Durham Road Edison, New Jersey 08818-4019 1.800.561.8187 information@itm.com www... Page 2 Edison, NJ 08818-4019 USA Telephone: 1-800-372-6832 or 732-287-3680 Fax: 732-248-1834 Web site: www.dranetz.com Copyright © 2003, 2004, 2005 Dranetz All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transcribed in any form or by any means—electronic, mechanical, photocopying, recording... Page 3 ADVERTENCIA na conexión incorrecta de este instrumento puede producir la muerte, lesiones graves y riesgo de incendio. Lea y entienda este manual antes de conectar. Observe todas las instrucciones de instalación y operación durante el uso de este instrumento. La conexión de este instrumento a un sistema eléctrico se debe realizar en conformidad con el Código Eléctrico Nacional (ANSI/NFPA 70-2005) de los E.E.U.U., además de cualquier otra norma de seguridad correspondiente a su establecimiento. Safety Summary WARNING statements inform the user that certain conditions or practices could result Definitions in loss of life or physical harm. CAUTION statements identify conditions or practices that could harm the 4400, its data, other equipment, or property. NOTE statements call attention to specific information. The following International Electrotechnical Commission (IEC) symbols are marked Symbols on the top and rear panel in the immediate vicinity of the referenced terminal or device... Page 5 Safety Summary, Continued Les messages d'AVERTISSEMENT préviennent l'utilisateur que certaines conditions Définitions ou pratiques pourraient entraîner la mort ou des lésions corporelles. Les messages de MISE EN GARDE signalent des conditions ou pratiques susceptibles d'endommager "4400", ses données, d'autres équipements ou biens matériels. Les messages NOTA attirent l'attention sur certains renseignements spécifiques. Page 6 Safety Summary, Continued The following safety precautions must be followed whenever any type of voltage or Safety precautions current connection is being made to the 4400. • Wear proper Personal Protective Equipment, including safety glasses and insulated gloves when making connections to power circuits. • Statement of warranty material and workmanship for a period of one year from the date of delivery. Dranetz will repair or replace, at its option, all defective equipment that is returned, freight prepaid, during the warranty period. There will be no charge for repair provided there is no evidence that the equipment has been mishandled or abused. Page 8 Dranetz, 1000 New Durham Road, Edison, New Jersey 08818. Copyright © 2003, 2004, 2005 Dranetz All Rights Reserved. Table of Contents Safety Summary Statements and Notices.....CHAPTER 1 - Getting Started Overview Unpacking the 4400..... Standard Accessories.....4400 Controls, Indicators, and Connectors Top and Side Views Front View Bottom View Rear View Upgrading Firmware from a Data Card..... Page 10 Table of Contents, Continued CHAPTER 4 - Instrument Settings Overview Access Instrument Settings Menu Time and Date Settings..... Select Language Set Display Preferences Touch Screen Calibration Turn Threshold Beeper On/Off Communications 4-10 Data Card..... 4-12 Reset to Factory Configurations Page 11 Table of Contents, Continued RMS Variation Limit.....Waveform Capture 6-13 Characterizer Options6-14 Journal Limit..... 6-15 Journal Interval for Timed Readings 6-18 EN50160 Power Quality (for strict EN50160 monitoring only) 6-20 CHAPTER 7 - View Event Data Overview Page 12 Table of Contents, Continued APPENDIX A - Optional Accessories OverviewHardware Accessories List & Descriptions..... Software Accessories List APPENDIX B - Technical Specifications OverviewGeneral..... InterfacesMeasured Parameters.....Computed Parameters.....Parameter Settings in Each Monitoring ModeTR2500 Current Probe..... Page 13 Dranetz PowerGuide 4400 © xiii 1.800.561.8187 information@itm.com www... Page 14 1.800.561.8187 information@itm.com www... Page 15 1.800.561.8187 information@itm.com www... Dranetz software applications such as NodeLink and DranView © This manual contains instructions for operating the Dranetz PowerGuide 4400. This manual 1.800.561.8187 information@itm.com www... Page 16 Overview, continued The following topics are covered in this chapter. In this chapter Topic See Page Unpacking the 4400 Standard Accessories 4400 Controls, Indicators and Connectors Upgrading Firmware from a Data Card 1-10 4400 Features 1-12 Basic Operation 1-14 1.800.561.8187 information@itm.com www... NOT return the 4400 without prior instructions from Dranetz Customer Service Department. Dranetz Customer Service Department can be reached at (732) 287- 3680 or 1-800-372-6832. If the unit must be returned to Dranetz for service or repair, wrap the unit securely Repacking for return shipment in heavy packaging material and place in a well padded box or crate to prevent damage. FAX: (732) 248-9240 Fill out the Repair/Service Order form enclosed in the shipping carton and ship it along with the unit to the Dranetz Repair Department. (If this form is missing, ask the Dranetz Customer Service Department for a replacement.) 1.800.561.8187... CH 1/ Getting Started 4400 Controls, Indicators, and Connectors 4400 is a self-contained, portable instrument weighing less than 4 pounds and Dimensions measuring 8" (20.3 cm) deep by 12" (30.5 cm) wide by 2.5" (6.4 cm) high. This section identifies and describes the controls, indicators, and connectors on all panels of the 4400 shown with rubber boot installed. 4400 Controls, Indicators, and Connectors, continued The top (circuit connection) view features the input voltage and current connectors. Top and Side Views The left side contains the optical interface port. The right side contains the AC adapter input connector. Both sides have rings for attaching the supplied carrying strap. See below for descriptions of the top and side connectors. CH 1/ Getting Started The front view primarily shows the color touch screen LCD. See below for descriptions Front view of the 4400 front panel. Parts table Part Function Mainframe Protective Rubber Boot Enclosure Liquid Crystal Display (LCD). Provides 3.75 x 4.75 inches display consisting of 1/4 VGA size screen of text and graphic information. 4400 Controls, Indicators, and Connectors, continued The bottom view features two slots. Either slot can be used to hold the data card. Bottom view NOTE: Use only one card slot (one data card) at a time. The additional slot will be used for future communications options. CH 1/ Getting Started The rear view shows the battery compartment and the easel studs to mount the unit to rear view desired angular position for use on a flat surface or to hang from a panel. 1.800.561.8187 information@itm.com www... 4400 internal memory. Refer to the instructions below on how to upgrade the 4400 firmware. Firmware upgrades for the 4400 can be downloaded from the Dranetz website. Log on to www.dranetz.com for the latest information on 4400 firmware update releases. Page 25 Dranetz Technical Support at 1-800-372-6832 for assistance. Turn the unit on by pushing the on/off button. The loader should display "Booting from program card". If not, call Dranetz Technical Support for assistance. The instrument will prompt the user to verify whether or not to upgrade the firmware. 4400 Features 4400 Features All 4400 functions described below are operable using a color LCD touch screen Touch screen function technology. Users may use a finger and/or a PDA stylus to apply pressure to the LCD screen to result in touch screen recognition. The touch screen display is also workable with lineman gloves on. Page 27 CH 1/ Getting Started The 4400 can monitor the following power configurations: Monitoring capacity • 3 Phase 2-Watt Meter Delta • Split Phase • Generic • 3 Phase Delta • 2 1/2 Element without V • 3 Phase Wye • ... Basic Operation Basic Operation The normal power source for the 4400 is its internal battery pack. The AC Adapter/ Introduction Battery Charger is used to charge the battery. Always charge the battery fully before use. The 4400 will always operate on the charger and is designed to do so, regardless of the state of charge of the battery. CH 1/ Getting Started Follow these steps to turn on the 4400 and display the Home screen. Power on sequence Step Connect ac adapter/battery charger plug into the right side of 4400. Plug the ac adapter into an ac power source. Press the 4400 On/Off power button to turn the unit on. Basic Operation, continued Home screen contains the following icons used to access various 4400 functions: Home screen icons Scope - Scope mode shows real-time voltage and current waveforms of the signals on the measuring inputs. See Chapter 3 View Real Time Data - Section A Scope Mode. Meter - Meter mode displays voltage and current measurements, along with other calculated parameters. C H A P T E R Voltage Measurement Cable and Current Probe Connections Overview This section describes how to connect the 4400 to make basic single phase voltage Introduction measurements. For multi-phase connection diagrams, refer to Appendix E. hapter. Page 32 Overview, continued ADVERTENCIA Una conexión incorrecta de este instrumento puede producir la muerte, lesiones graves y riesgo de incendio. Lea y entienda este manual antes de conectar. Observe todas las instrucciones de instalación y operación durante el uso de este instrumento. Page 33 CH 2/ Voltage Measurement Cable and Current Probe Connections The following safety precautions must be followed whenever any type of voltage or Safety precautions current connection is being made to the 4400. • Wear proper Personal Protective Equipment, including safety glasses and insulated gloves when making connections to power circuits. Connecting Voltage Measurement Cables Connecting Voltage Measurement Cables Description: Voltage measurement cables are provided as standard accessories and are Measurement cable set stored in a cable pouch as part of the measurement cable set, P/N 116042-G3. Each cable set consists of a cable and alligator clip. Voltage Rating: Direct connection of all voltage measurement cables are rated at 600 Vrms max. Page 35 Refer condition to a qualified technician. Contact Dranetz Customer Service for more information on the fused voltage adapter. Refer to Dranetz Information Sheet titled Model FVA - Fuse Voltage Adapter, P/N 899107. 1.800.561.8187 information@itm.com... Page 36 Connecting Voltage Measurement Cables, continued Follow these guidelines when making voltage connections. Connection guidelines • Refer to the measurement cable set figure for color coding of probes that connect to input channel connectors A, B, C, and D. • Each channel input has plus (+) and minus (-) differential inputs of 1 to 600 Vrms max. Page 37 CH 2/ Voltage Measurement Cable and Current Probe Connections The following figure shows a voltage connection using channel D as a differential input Example: Neutral to for measuring neutral to ground voltage. Connections are identical for split phase and ground wye configurations. Page 38 Connecting Voltage Measurement Cables, continued The following safety precautions apply to current probe connections in addition to Safety precautions those safety precautions stated on page 2-3. • DO NOT attempt to measure current in any circuit in which the circuit to ground voltage exceeds the insulation rating of the current probe (600 Vrms max). CH 2/ Voltage Measurement Cable and Current Probe Connections Connecting Current Probes Several Dranetz current probes can be used with the 4400. Typical current probes Current probes are illustrated on page 2-10. Refer to Appendix A for descriptions and part numbers of probes and adapter cables. Page 40 Connecting Current Probes, continued Typical current probes 4300 TO LEMPLEX CURRENT PROBE A DA PTER CA BLE 116310-G1 PX5-14.14.vsd NOTE: Current probes TR2500 can be used interchangeably with TR2500A, TR2510 with TR2510A, and TR2520 with TR2520A. Continued on next page 2-10 1.800.561.8187 information@itm.com... Page 41 CH 2/ Voltage Measurement Cable and Current Probe Connections Actual photos of TR series probes and part numbers are shown below to aid users in Typical current probe identification. Contact Dranetz Customer Service Department for more (continued) information on current probes, pricing and availability. P/N TR-2500... Page 42 Connecting Current Probes, continued The following figure shows how to connect a current probe to channel A for current Single phase current probe monitoring of a single phase line. connection example The current probe may be connected to the return line if desired to measure the return current when checking for load current leakage, loop current relationships, etc. C H A P T E R View Real Time Data Overview The 4400 allows users to view power quality

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