ULT-2010 Basic Features

- LARGE GRAPHICS DISPLAY WITH CURSOR SELECTION OF OPTIONS AND SETUP OF PARAMETERS
- ♦ USER-SELECTABLE CHALLENGE (TEST) VOLTAGE (90 TO 275 VAC)
- ♦ USER SELECTABLE CHALLENGE (TEST) FRE-QUENCY (50 OR 60 HZ)
- USER-SELECTABLE TEST LIMITS BY ULTRA-SOUND TRANSDUCER MANUFACTURER AND MODEL
- **♦ 1% FS MEASUREMENT ACCURACY**
- ♦ AUTO RANGING WITH 10, 250, OR 500 ≒A FS
- **AUTOMATIC INTERNAL SELF TEST**
- SINGLE BUTTON PRESS FOR FULL SYSTEM TEST
- SIMPLE GO-NOGO MODE FOR NON-TECHNI-CAL USERS
- **♦ ANALYTICAL MODE FOR TECHNICAL USERS**
- **♦ DIGITAL CALIBRATION NO POTS TO TURN**
- **WER-SELECTABLE DISPLAY OPTIONS**
- **♦ BATTERY LIFE DISPLAY (0 to 100%)**
- **♦ PROGRAMMABLE BACKLIGHT TIMER**
- **ONTRAST IS SOFTWARE ADJUSTABLE**
- **♦ FLASH UPGRADEABLE FIRMWARE**
- ♦ RS232 & PC SOFTWARE
- SERIAL PRINTER OUTPUT WITH PROGRAM-MABLE USER HEADER
- **♦ REAL TIME CLOCK**
- ♦ COMPATIBLE WITH DALE® TECHNOLOGY DALE800® AND FLUKE® BIOMEDICAL ULT-800® ULTRASOUND TRANSDUCER ADAPTERS AND DUAL CONDUCTIVITY PROBES

ULT-2020 Basic Features (METER, DATALOG)

HAS ALL THE BASIC MODEL FEATURES PLUS:

- METER MODE FOR EXTENDED MEASURE-MENT PERIODS
- PROGRAMMABLE METER CHALLENGE VOLT-AGE AND FREQUENCY
- **♦ PROGRAMMABLE METER TIMER**
- ♦ DATALOG WITH STORAGE OF 99 TEST RECORDS

BC Group International, Inc.

9415 Gentry Avenue St. Louis, MO 63125 USA Phone: 314-638-3800 Toll Free: 1-888-223-6763

Fax: 314-638-3200

Email: sales@bcgroupintl.com
Website: www.bcgroupintl.com

ULTRASOUND LEAKAGE TESTERS

BC Biomedical ULT-2000 Series

ULT-2020



Optional ULT-2000 Printer

The ULT-2000 Series is specifically designed to test the electrical safety of all types of diagnostic ultrasound transducers, totally independent of the ultrasound machines on which they are typically used. Although the ULT-2000 can be used on virtually any type of ultrasound transducer, it is especially recommended in the testing of TEE (Transesophageal Echocardiography) transducers prior to each use; as recommended by many TEE ultrasound device manufacturers. The ULT-2000 tests the integrity of the outer insulation barrier of the transducer as well as the

The ULT-2000 Series is the most advanced instrument of its kind on the market today and adds a totally new dimension to diagnostic ultrasound transducer electrical safety testing. With features and functionality that far surpasses competitive products from other manufacturers, the ULT-2000 is easy to set up and use. Operating modes include a simple PASS/FAIL mode as well as a QUANTITATIVE mode that offers actual readings. You can print test results to an optional printer.

capacitive leakage currents that exist.

Compatibility with Dale Technology® DALE800, Fluke Biomedical® ULT800 adapters and Dual Conductivity Probes allow you to upgrade to the very latest technology platform, while safeguarding your prior investment in adapters and probes. A wide variety of BC Biomedical adapters and accessories are available.



BC BIOMEDICAL ULT-2000 SERIES

SCREEN SHOTS

Typical Display During Testing <u>Test Procedure:</u> SOURCE TEST to verify voltage used during test. Full Test <u>Sonosite: TEE</u> CIRCUIT TEST to verify Source Voltage Circuit Test <u>DUT Information</u> Manufacturer: Mode 119V 🗹 measurement circuitry.
BATH CONDUCTIVITY TEST to 96 ⊬A ☑ validate cleaning solution.
PROBE LEAKAGE TEST to Bath Cond μАП Probe Leakage μАП measure the leakage current of Progress Indicator

Test Measurements

Typical Passing Results Display Choices

Sonosite: TEE <u>Full Test</u> Source Voltage 119∨ 🗹 97 ⊬A 🗹 Circuit Test 252 HA 🗹 Bath Cond 51 ⊬A 🗹 Probe Leakage TEST PASSED

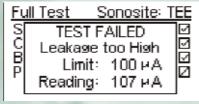
the DUT.

Full Test Sonosite: HST Source Voltage Test ⍃ Circuit Test Ø Bath Conductivity Test ☑ Probe Leakage Test TEST PASSED

Quantitative Mode

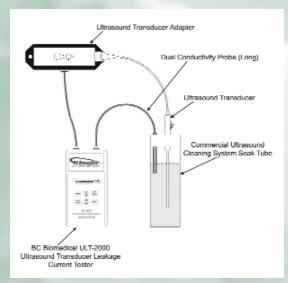
Pass/Fail Mode

Typical Failed Results Display



Quantitative Mode & Pass/Fail Mode

Test Your TEE Transducers While They Are Being Disinfected in a Commercial Cleaner



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SPECIFICATIONS

Source Voltage

90 to 275 VAC, ± 1% FS

Leakage Current

.5 to 10 μA, ± 1% FS Range 10 to 250 μA, ± 1% FS Range 250 to 500 μA, ± 1% FS Range

Conductivity Current

.5 to 10 μA, ± 1% FS Range 10 to 250 μA, ± 1% FS Range 250 to 500 µA, ± 1% FS Range

Display

LCD Graphical w/Backlighting 128 x 64 Pixels

Setup Memory

EEPROM, All Parameters

Memory Retention

10 years w/o Power

Operating Range

15 to 30° C

Storage Range

-40 to 60° C

Construction

Enclosure - ABS Plastic

Face - Lexan, Back Printed

Size

7.09" x 3.94" x 1.56"

Weight

≤ 1.5 lbs

Connections

Power - 2.1 mm Center Negative

Power

Line - 9V DC, Center Negative

Battery - 9V Lithium

Power Consumption

On - Less than 150 mA Off - Less than 40 uA

Battery Life

Continuous - 20 hours Off - 12 months

Battery Eliminator (Optional)

US - BC20-21100 Euro - BC20-21101

9V, 200 mA DC

Typical Test Setup for Testing Your Ultrasound Transducers with a Transducer-Specific Adapter & a Soak Tray

