

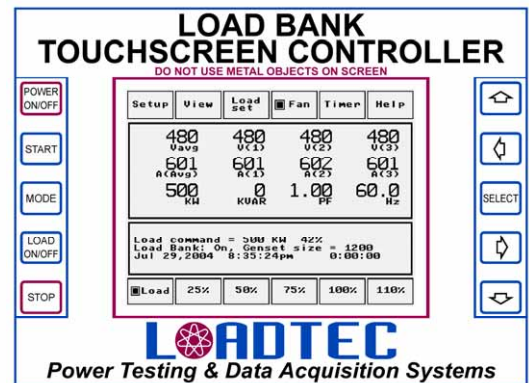
LOADTEC

TOUCH COMMAND

OPERATOR INTERFACE PANEL

Touch Screen Controller

DIGITAL CONTROL FOR EASY USE OF POWERFUL FEATURES



▶ FEATURES:

- ▶ Dual Processor embedded control system
- ▶ No. 1 processor dedicated to control & data display
- ▶ No. 2 processor dedicated to metering & data acquisition
- ▶ Load Bank operation made easy by software control
- ▶ Operator guided by graphical Transflective LCD display
- ▶ Touch the KW value & controller queries for new load value
- ▶ Full Metering & status continuously displayed
- ▶ OIP shock mounted in magnetic mount
- ▶ OIP sources its power from the main system, no battery

▶ PROTECTIVE SYSTEM:

- ▶ The embedded controller provides a comprehensive protection system
- ▶ All faults are displayed and recorded in an operation log
- ▶ Faults will shutdown or disconnect the unit as required
- ▶ Temperature and voltage faults are two stage to warn before shutdown
- ▶ Fan operation & air flow are monitored
- ▶ Exhaust, intake and internal temperatures are monitored
- ▶ Load over voltage is monitored in two stages for pre-shutdown alarm
- ▶ Control voltage is monitored for over & under voltage in two stages
- ▶ Control frequency is monitored for over & under rating condition
- ▶ Cooling fan motor overload is monitored and alarmed
- ▶ Fuses are provided on each control and load circuit

▶ CONTROL FUNCTIONS:

- ▶ Control power: On-Off
- ▶ Automatic fan start for voltage & rotation
- ▶ Direct KW or Amperage load command input
- ▶ Direct PF command input (optional resistive/inductive units)
- ▶ Jog load up & down adjustment by programmable value
- ▶ (5) Programmable step buttons by % of test source rating
- ▶ Load step / Fan compensation correction variables
- ▶ (16) Stage Programmable Test Sequencer
- ▶ Real time clock and Start/Stop timer

▶ ADVANTAGES:

- ▶ Digital Data Communication
- ▶ Network Multiple units to create a large system
- ▶ Upgrade to the latest feature or operation with software
- ▶ The digital controller makes the unit a Testing Platform
- ▶ Standard portable remote control to 500 ft from unit
- ▶ Multiple OIP controllers can be connected
- ▶ RS232, RS422 & RS485 ports for custom configurations
- ▶ TCP/IP ready
- ▶ Integrate to third party control systems like Labview®



▶ METERING:

- ▶ Metering is an integral part of the embedded controller
- ▶ Dedicated processor for metering and data acquisition
- ▶ Voltmeter: L1-2, L2-3, L3-1, Average
- ▶ Ammeter: L1, L2, L3, Average
- ▶ Frequency: 45-440Hz.
- ▶ Kilowatts, KVA, Kilovars, Power Factor, Rotation
- ▶ Accuracy: $\pm 0.5\%$, $\pm 1c$
- ▶ 8kHz sampling, RMS values past the 3rd Harmonic
- ▶ Calibration routine to match reference meters

▶ Network Control Function †

- ▶ Provides network TCP/IP control for (8) Load Banks
- ▶ Resistive, Inductive & Resistive/Reactive units can be connected
- ▶ The controller automatically configures when each unit is connected
- ▶ The individual units are connected using common Network Switch
- ▶ All connected units' functions are combined for common control
- ▶ The controller verifies that each unit has the same phase connections
- ▶ The control of the system can be by Touch Screen OIP
- ▶ The LoadView Software can also be interfaced to the system



LOAD BANKS WITH THE DIGITAL SOLUTION