

LC10/VCS Control System

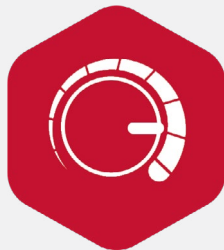


Compliant Loadbank Control

The LC10/VCS is a load-distribution controller with multi-loadbank networking. It has the flexibility to handle resistive, reactive, resistive-reactive, capacitive and liquid-cooled loadbank testing from a single device, without the complexity of a full desktop system. The LC10's 4.3-inch TFT capacitive touchscreen and high-resolution display provide a clear view of all test parameters, with live data that updates every 500 ms. The interface is clean and straightforward: load up, load down and monitor tests, with automatic fault detection that flags issues immediately.

Precise load control:

Manage resistive, reactive, capacitive, and hybrid loads from a single controller. Load control modes include kW, kVA, kVAR, Ampere, Percentage and Delta T (liquid cooled), with intelligent load distribution including proportional, follow and overflow.



Multi-loadbank capability:

The LC10 supports up to 50 loadbanks in a simple cluster, control, and monitor configuration. Intelligent load distribution handles the balancing automatically, so the operator stays focused on the test rather than managing individual units.



Built for site:

The LC10 enclosure is rugged enough for use in demanding environments.

Sealed against moisture and dust, protected against shock, vibration, and EMI, and rated for operation from -35°C to $+85^{\circ}\text{C}$.



Air and liquid cooled:

The LC10 provides the control and monitoring capability to run liquid-cooled loadbanks, including DeltaT setpoint control, flow monitoring, coolant quality indication and pressure sensing, giving operators complete visibility of the thermal circuit alongside the electrical test.



Looking for more functionality?

For customers managing larger tests that require advanced sequencing, PDF reporting, unlimited load presets, or networks up to 240 loadbanks, the LC80 running Crestchic VCS software is the ideal upgrade.

More straightforward setup?

When speed and simplicity matter, the panel-mount controller is fully integrated into the loadbank, offering step-load application in 1, 10, 100 and 1,000 kW increments, power factor visibility, and networking up to 25 units.

Talk to your Crestchic sales contact about the right controller for your testing requirements.

Datasheet: LC10 Controller v5.0.0

Key Features

Multi Loadbank Network	50
Clusters	50
Automatic Fault Detection	Yes
Loadbank Daisy Chaining	Yes
Maximum Ethernet Connection Distance	100 meters (LB to LB / LB to Controller)
Instrumentation Support	INS550/ACI500
Instrumentation Accuracy	0.1%
Instrumentation Frequency	500ms
Gradual Load Ramping	Yes
Overload Protection	Yes
Capacitive Loads	Yes
Reactive Loads	Yes
Resistive Loads	Yes
Liquid Cooled Loadbank Support	Yes
Manual kW Control	Yes
DeltaT Control (+/-0.3c)	Yes
Flow Monitoring	Yes
Coolant Quality Indicator (Conductivity)	Yes
Redundant Inlet/Outlet Temperature	Yes
Pressure Sensor	Yes
Percentage Load Support	Yes
Ampere Load Support	Yes
kVA Load Support	Yes
kW Load Support	Yes
kVAR Load Support	Yes
Adjustable Leading Power Factors	Yes
Adjustable Lagging Power Factors	Yes
Star Topology	Yes
Delta Topology	Yes
Single Phase Topology	Yes
Overflow Distribution	Yes
Follow Distribution	Yes
Proportional Distribution	Yes
Dump Load (-100%)	Yes
Staggered Start Up	Yes
AC System	Yes

LC10 System Specification

MCU	400MHz - 32-Bit
MEMORY	32-MByte
RESOLUTION	800(w) x 480(h)
OPERATION CONDITION	-35°C to 85°C
CONNECTOR	Male M12-X connector
POWER REQUIREMENT	24V at 1A
SIZE	182(mm) x 122(mm) x 35(mm)

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