

## Loadbank Control Systems

With over 30 years of loadbank manufacturing, Crestchic support their load banks of varying sizes and age across the world.

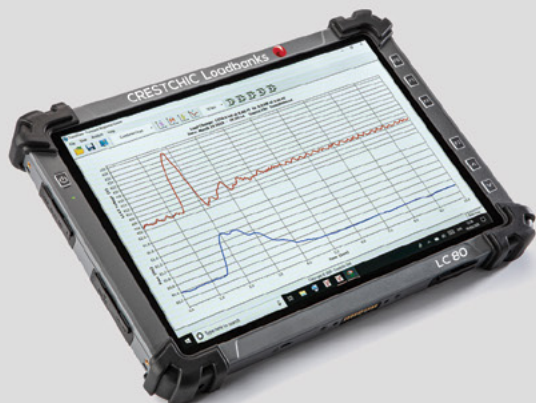
Our multilingual control systems cover basic manual controls, enhanced microprocessor controls, and load-tracker controls, offering a range of handheld controllers, software and units. Explore our systems below, or to discuss the best option for your requirement visit our website at [www.crestchicloadbanks.com](http://www.crestchicloadbanks.com).

### BASIC CONTROLS – PCB Based



- **KCS100 Controller:** A simple and efficient PCB multi-step system, with load input from 1kW upto 9999kW. It is available as a handheld or loadbank mounted controller. The KCS100 can also be integrated into a remote-control panel enclosure, with the option of mains-failure response. It is the perfect choice for rudimentary genset testing and maintenance.
- **Toggle Switch Control:** Allows fixed load steps operated by simple loadbank mounted toggle switches. It is a low cost, ultra-simple, pre-set control with no external connections.
- **Wired to Terminals:** Offers external operated load steps from basic-fixed to customer defined resolution, activated by volt-free contacts. Ideal for basic system integration up to any given capacity; no proprietary controller required.

### ENHANCED CONTROLS – Microprocessor Based (MCS)



- **LC80 Handheld:** A ruggedized tablet controller suitable for new MCS-controlled loadbanks the LC80 comes with an IP65 daylight viable screen for outdoor operation. Pre-loaded with Crestchic's Orion software it combines manual control with a detailed instrumentation display, pre-set load programmes, motor start facility and real time data capture for single or multiple loadbank control.
- **Orion Software:** Our state-of-the-art PC software can be supplied on a disc or downloaded where use of client's laptop is preferred. It provides the same functionality as the LC80.
- **Fibre Optic Connectivity:** Connectivity between loadbank and controller via fibre optic lead.
- **Modbus Interface:** Modbus over industrial ethernet using TCP-IP protocol interface is available on all MCS-controlled loadbanks for easy integration into the client's own system.

## LOAD TRACKING CONTROLS



- **Load Trakker II:** For oversized or lightly loaded generators running below minimum load level, our Trakker II System can add load in 1kW steps. This can help to avoid a reduction in engine performance and efficiency due to incomplete combustion.
- **Regen:** To cater for the regenerative load experienced by crane, lift and cable car operators. The damaging effects of regenerative load can easily be avoided with the highly responsive regen loadbank.

## CONTROL SYSTEM MATRIX

	WTT/Toggle	KCS	MCS LC80	MCS SW	MCS Modbus	Trakker II	Regen
Manual Load Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple Parallel Operation	No	Yes	Yes	Yes	Yes	No	No
Programmable Load Profiles	No	No	Yes	Yes	Yes	No	No
Motor Start Simulator	No	No	Yes	Yes	Yes	No	No
Load Control by Percentage	No	No	Yes	Yes	Yes	No	No
Data Acquisition	No	No	Yes	Yes	Yes	No	No
Variable Power Factor	No	No	Yes	Yes	Yes	No	No
Transient Response	No	No	Yes	Yes	Yes	No	No
Integration to Client Control System	No	No	No	No	Yes	No	No
Test Report Generation	No	No	Yes	Yes	No	No	No
Load Tracking	No	No	No	No	No	Yes	Yes
Regenerative Load Capability	No	No	No	No	No	No	Yes
Fibre Optic Connectivity	No	No	Yes	Yes	No	No	No

## CRESTCHIC PRODUCT OVERVIEW

AC Resistive Only Loadbanks	AC Resistive-Reactive Loadbanks	Step-Up/ Step-Down Transformers	DC Loadbanks	Medium Voltage Loadbanks (up to 36kV)	AC Reactive Only Loadbanks	Aviation Ground Power Generator Loadbanks
<ul style="list-style-type: none"> <li>▪ Voltage 208 – 690V 3-Ph</li> <li>▪ 1-Phase Option Available</li> <li>▪ 10 – 7000kW</li> <li>▪ 50, 60 or 400Hz</li> <li>▪ 1.0pf</li> <li>▪ 1kW resolution</li> </ul>	<ul style="list-style-type: none"> <li>▪ Voltage 208 – 690V 3-Ph</li> <li>▪ 1-Phase Option Available</li> <li>▪ 50 – 6250kVA</li> <li>▪ 50, 60 or 400Hz</li> <li>▪ Fixed or Variable Power Factor</li> <li>▪ 1kW resolution</li> </ul>	<ul style="list-style-type: none"> <li>▪ 400V – 36kV</li> <li>▪ 2000 – 8000kVA</li> <li>▪ MV &amp; LV Switchgear</li> <li>▪ ONAN/ONAF Variants</li> </ul>	<ul style="list-style-type: none"> <li>▪ 24 – 1000V DC</li> <li>▪ Amps or kW resolution</li> <li>▪ Single or Multi-Voltage Units</li> </ul>	<ul style="list-style-type: none"> <li>▪ Voltage 690 – 36kV 3-Ph</li> <li>▪ 500 – 3500kVA</li> <li>▪ 500 – 4000kW</li> <li>▪ 50 or 60Hz</li> <li>▪ Unity or Variable pf</li> </ul>	<ul style="list-style-type: none"> <li>▪ Voltage 208 – 690V 3-Ph</li> <li>▪ 1-Phase Option Available</li> <li>▪ 10 – 1800kVAr</li> <li>▪ 50 or 60Hz</li> </ul>	<ul style="list-style-type: none"> <li>▪ Voltage 200 – 208V 3-Ph</li> <li>▪ 72 – 160kW</li> <li>▪ 90 – 200kVA</li> <li>▪ 400Hz</li> <li>▪ Unity or 0.8pf</li> <li>▪ 28V DC upto 2500A</li> </ul>

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