

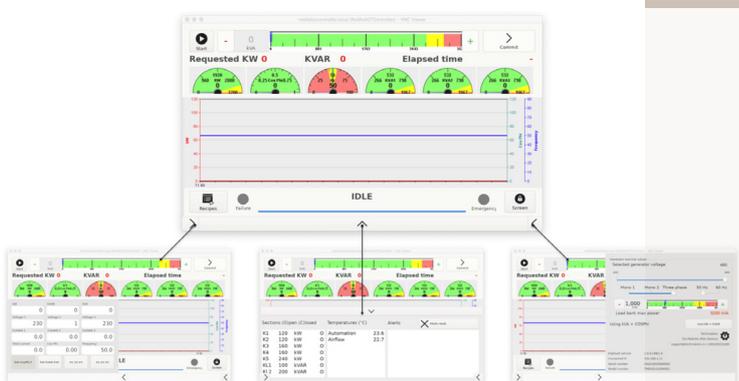
Digiload



Digiload is a complete load bank control system giving you unparalleled control and test data at your finger tips.

The system gives you -

- Unrivalled processing power
- Touch screen interface
- Rugged remote control (option)
- Ability to network and control up to 20 load banks simultaneously
- Data logging with automatic downloads via USB
- Load profile memory function for repeat tests
- Precision power measurement
- A remote diagnostic and repair support service
- Future proof technology



Quick and easy to set up, the digiload system aims to speed up the testing process, giving you accurate data that can be stored and accessed whenever you need it.

Cloud based connectivity makes it the most flexible system on the market, making user control, servicing and support a breeze.

Detail

Processing power

Digiload is the most powerful load bank control system on the market. Utilising a single-board computer, complete with quad core 1.5Ghz processor and 2Gb of LPDDR4 SD RAM you can be sure that our system will process and present your data at high speed.

User control

Digiload offers you three user control options - local touchscreen and remote via dedicated controller or users own PC. Each load bank with Digiload is supplied with a touch screen ; available as either a 7" or 10" size. The remote control is IP66 to protect it from what the world (and you) can throw at it. The remote connection is made over an Ethernet so you can connect to your load bank via your own PC or building management system.

Load profile memory

Digiload offers you the opportunity to input your own pre-configured load step sequences so you can quickly and easily run repetitive tests. There is no limit to the number of sequences you can save. Useful for portable load banks, where you can bring the load bank to the generator and immediately run the required test without wasting both time, with repetitive set-ups, and fuel by testing longer than necessary.

Power measurement

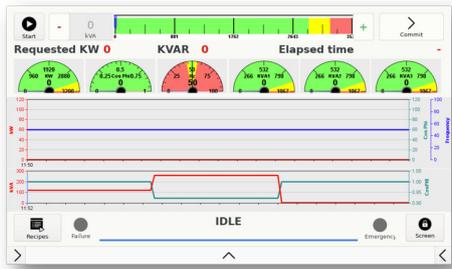
Digiload measures - Voltage Vrms, Current Irms, Power kW and in addition for AC: Apparent Power kVA, Reactive power kVAR, power factor cos ϕ . Measurements are sampled 6400 times per second and the data is displayed on-screen in real-time.

Data logging

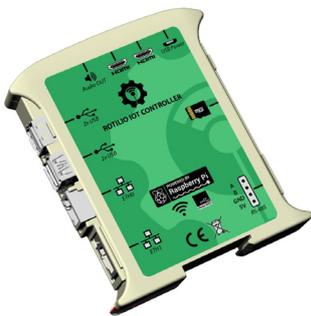
Test records are automatically downloaded onto one USB stick in a .csv format making it quicker and easier for you to interpret what is going on. All data including the power measurements, alarm states, air temperatures are recorded to the internal memory card at a default rate of 1 sample per second. High efficient data storage means Digiload can store 900 days worth of test data and still have room to spare.

Future proof

The Digiload software platform can be upgraded and updated over time. Simply connect the load bank to a network with Ethernet cable, or the optional 4G modem and request the update from our support team.



Interface



Processor

Networking capability

The digiload system enables you to create a network of up to 20 load banks connected via ethernet cable. Networking load banks means tests can be run simultaneously from a single point of control saving significant set-up time.

Remote diagnostics and repairs

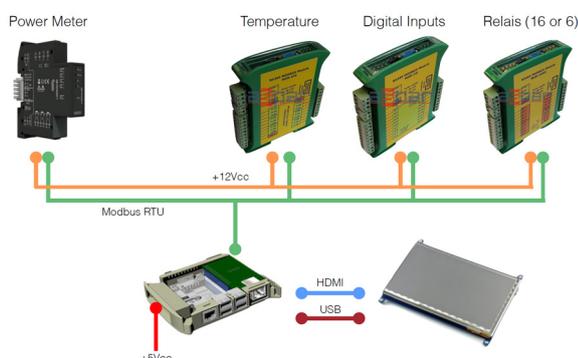
We can connect to the digiload system from our headquarters using the Gigabit Ethernet port or optional cellular 4G data connection module and quickly, provide remote support to your service team wherever you are in the world.



Remote control

Technical specifications

System architecture



Core computer

Processor	Quad core 1.5GHz CPU
Memory	2GB LPDDR4 SDRAM
Storage	32GB industrial grade micro-SD card
Connectivity	2 x Ethernet 2 x USB 3.0 1 x RS-485
Time sync	Real-time clock
Vibration + shock	IEC 61131-2

Input/output modules

General purpose modules	16 x relay outputs (4 common rails) 6 x fully independent relay outputs 8 x Digital input + 8 relay outputs 16 x Digital inputs
Sensor input module	6 x Analogue temperature inputs
Communications	RS-485
Communication protocol	Modbus RTU

User interface

Display	Touch sensitive (capacitive type) IPS display
Display sizes	7" or 10"

Power measurement

Options	3-phase AC, 1-phase AC or DC
Measurements AC + DC	Voltage V, Current A, Power kW
Measurements AC only	Apparent power kVA, Reactive power kVAR, Power factor cos
Accuracy class IEC 62053-11	0.5 as standard (other options available)

Remote control (option)

User interface	10" Touch sensitive IPS display 1 x Power push button 1 x Emergency stop
Connectivity	2 x USB 3.0 1 x RJ45 1 x power connector
Communications protocol	Modbus TCP
Ingress protection IEC 60529	IP66 (closed) IP54 (open)

Cellular connection (option)

Connectivity	4G/LTE (Cat 4), 3G, 2G
SIM	1 x Small form factor SIM
Antenna connection	2 x SMA
System connection	10/100 Ethernet (Modbus TCP)
Communication protocol	Modbus TCP