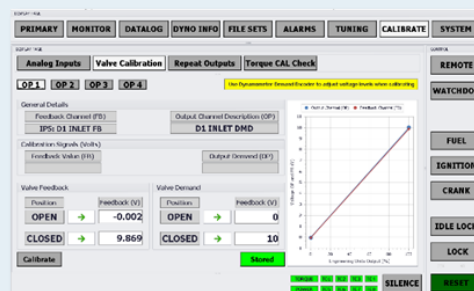
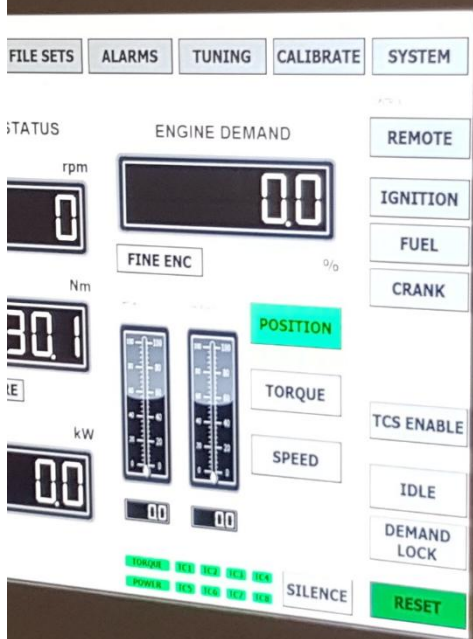


## REO-dEC R2 - Dynamometer and Engine Controller

REO-dEC R2 uses a 12" colour touch screen to provide an easy-to-use Digital Controller Interface that offers full control of:

- \* **Single or Tandem Water Brakes** with full control of both Inlet and Outlet Valves
- \* **Single or Tandem Eddy Current Dynamometers**
- \* **AC and DC Dynamometers**
- \* **Engine Throttle/Pedal Control** either mechanically or electronically.



## REO-dEC R2 – Fast Response Digital Controller

Using advanced High-Speed Digital PIDs, the controller provides accurate control of the engine and dynamometer. Any number of PID and System Configurations may be stored and recalled at any time.



## System Connections

**Tandem Dynamometer Control** is offered as standard. For Water Brakes, REO-dEC R2 offers individual control of each inlet and outlet valve for up to two dynos.

Each of the two Dynamometers can be fitted with a load cell (torque transducer) and speed input to the system.

### The rear panel provides:

- 12 Analog Inputs (+/- 10V)
- 8 Thermocouple Inputs
- 2 Load Cell Conditioned Inputs
- 2 Frequency Inputs
- 6 Digital Inputs
- 6 Analog Outputs
- 8 Digital Outputs
- 2 Ethernet Interfaces
- 1 RS485 Interface
- 1 Serial Interface
- 1 HDMI Output
- 2 USB Ports



Options on additional Signal conditioning is available.

Advanced Torque Filtering technologies are used to ensure accuracy of readings.

Complex function control is offered in addition to the standard Speed and Torque Control Modes. This includes simple Road-load modelling to more complex polynomial control.

Dynamometer Maps are provided to ensure that the user can be confident that the system is operating within the capabilities of the dynamometer.

### Remote Control

Using standard AK Protocols, REO-dEC R2 allows full remote control from a testbed PC via RS232 or Ethernet Interfaces.

### System Integrity

The Embedded Operating System and Hardware are used to ensure the system functions well in a rugged engine test environment.

