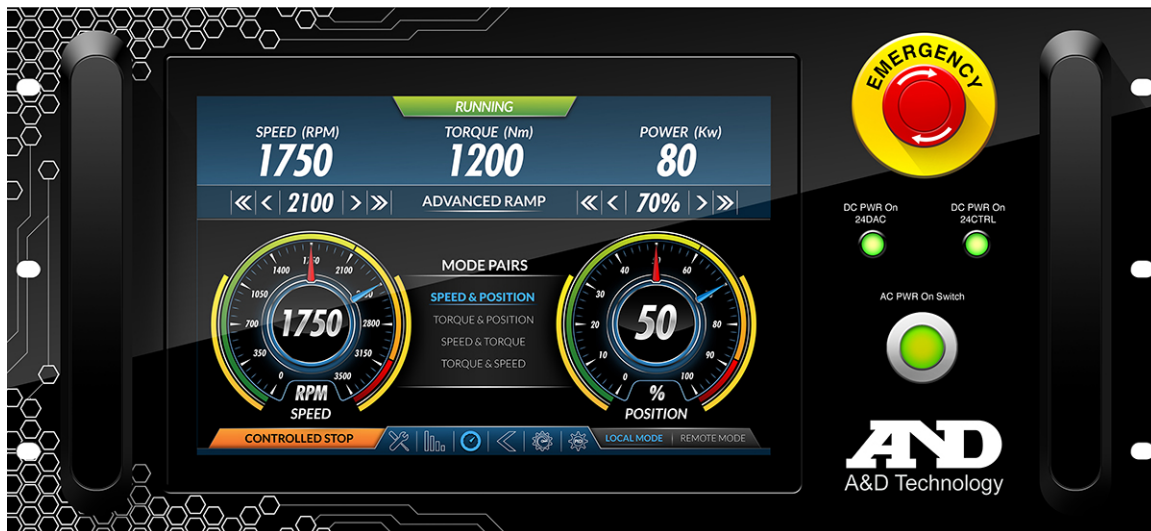


Overview

A&D Technology's Dyno Controller is a versatile dynamometer and throttle controller, built on A&D's 30 years of dyno control experience. This real-time controller is able to control a variety of dynamometers including, Eddy Current, Water Brake, AC, DC, and PM, and can be used in a wide range of test applications, including engine, transmission, powertrain, or e-motor. This dyno controller can either be a standalone unit, or can be integrated with a host data acquisition systems, such as A&D's iTest.



Sample Main Display

Key Features

- Bumpless mode switching
- Limit monitoring
- PID tuning
- Manual control from onboard touchscreen interface panel
- Host DAC remote control communication via UDP or discrete I/O
- Fault monitoring and notifications
- Up to 1kHz control loop update rate
- Dynamometer service tracking
- Calibration Utilities
- Quad core processor running GUI and real-time control loops
- Industrial touchscreen interface panel
- Remote web configuration tool
- Configurable security settings

Supported Dynamometer Types

- Water brake
- AC
- DC
- PM
- Eddy current

Supported Throttle Types

- 0 - 10V
- 4 - 20 mA

Configurable Test Cell Protections

- Software limits on key measured parameters
- Calculated channel for angular acceleration limit
- Dynamometer and engine speed limits
- Dynamometer and engine torque limits
- Watchdog based on the automation system
- Temperature monitoring for cooling water, stator windings, and bearings
- Flow switch monitoring
- Vibration limit monitoring (Requires customer sensor and signal conditioning)
- Digital I/O for safety interlocks with test cell safety controller
- Calculated differential speed limit (delta between dyno and engine speed)
- Configurable user level security settings

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