



DynCtrl-II / Instrumentation



DynCtrl-II Instrumentation

Taylor Dynamometer's DynCtrl-II instrumentation system for towing dynamometers includes a ruggedized, Wi-Fi, touchscreen tablet PC with an integrated graphic heads-up display and a robust instrumentation package mounted in a sealed Nema enclosure. Our easy to use, intuitive, DynCtrl-II software not only makes testing simple, but also displays and records multiple channels of real time data.

DynCtrl-II software goes far beyond typical load testing by allowing the engineer to create advanced, automated hill simulation profiles that can be named and stored for ease of use.

Taylor Dynamometer's RS and RSL series towing dynamometers continue to be the most advanced, best built and reliable towing dynamometers in the industry. Contact Taylor Dynamometer today for more information about our world leading towing dynamometer equipment.

DynCtrl-II Features

- Simulate slope
- Compensate for actual slope
- Simulate trailer weight and aero
- Compensate for vehicle weight
- Reference slope input
- Import/export Excel® file
- Save, name and file hill profile
- Auto record data
- Integrated heads up/drivers trace display

Everything you need to succeed

Four Basic Functions

Closed Loop Speed Control

Closed loop speed is the towing dynamometer controlling the speed according to the input value and the driver controls the load with the throttle.

Closed Loop Load Control

Closed loop load is the towing dynamometer controlling the load according to the input value and the driver controls the speed with the throttle.

Manual Load Control

Manual load is accomplished by using the up or down arrows to increase or decrease the load.

Hill Simulation Profile Test

Custom hill profiles can be created in Microsoft Excel® and then exported to the towing dynamometer. The tests can then be selected in the controller and then run. The operator can select the interval of recorded data resolution. Test can be named and saved and exported to Excel® for analysis.

Intuitive Layout

Accessibility

The main control buttons are located on each side and across the bottom of the screen. This design optimizes the touchscreen access by making each button easy to reach with a simple thumb or finger touch allowing the center of the screen to stay unobstructed.

Priority Information View

The lower half of the screen features a selectable view screen which includes a data recording screen, a heads up display screen, an operating information screen, a PID scope screen and a dyno function control screen.

Test File Storage and Edit on the Fly

Store hill simulation files in the easy access menu and make changes from an intuitive edit menu. Once the desired test is selected, it is then easy to view the test and edit it if needed.

Hands Off

Automated tests, data recording and "set and go" controls keeps hands on the wheel and increases testing safety.



Main Control Screen



Dyno Function Control Screen



Heads up Display and Driver's Trace Screen



Hill Simulation Menu and Edit Screen

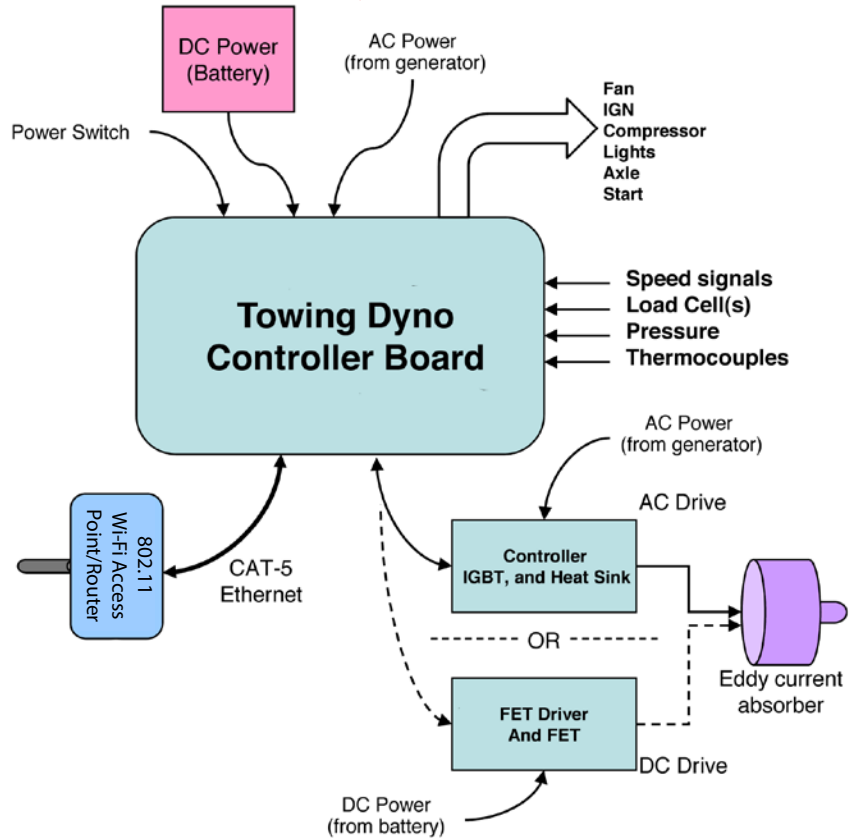
DynCtrl-II Instrumentation System Flow Chart

In Test Vehicle

Computer can connect wirelessly via Wi-Fi or hard wired with Cat5 cable



In Towing Dynamometer



Main Control Card Specifications:

- Strain gauge inputs (2)
- Analog inputs (8)
- Analog outputs (2 at 4-20 ma)
- Thermocouple inputs (8)
- Digital outputs (14 through relays and 2 direct)
- Digital inputs (8)
- Frequency inputs (4)
- AC Monitor
- IGBT or FET Drive
- Serial RS-232, 485
- Current transformer input
- Bluetooth or Wi-Fi Wireless Communication
- CAT-5 connection when needed

Everything you need to succeed

