

Dyn-Loc IV

Eddy Current Dynamometer Controller



Features

- Micro-processor based closed loop control of Speed and Torque
- Regulation accuracy of +/- 1 unit for both speed and torque
- Integral power amplifier, adjustable from 0.5 – 16.0 amps
- Integrates with external power amplifier units for requirements greater than 16.0 amps
- Safeties including over and under speed, dynamometer flow and pressure inputs, and E-stop
- Bumpless transfer between Speed and Torque modes
- RS232 communication port
- Communication drivers available for NI-LabVIEW, MS-Visual Basic, C++ and ASCII Text
- Configurable linear ramp rates for both Speed and Torque
- Analog Speed and Torque outputs
- Lever wheels for manual adjustment of set points
- High resolution displays for Power, Speed and Torque

The Dyne Systems Dyn-Loc IV is a closed loop dynamometer controller that provides accurate and repeatable speed and torque control for virtually any eddy current dynamometer. The Dyn-Loc IV sets the standard for digital drift-free closed loop control and provides a complete dynamometer control solution by incorporating features like an integrated eddy current power amplifier.

Dimensions

19" Rack x 8.75"h x 13"d

Control Power

120 / 240 V, 2.0 Amps

PAU (Field) Power

Maximum 277 V, 16.0 Amps
50/60 Hz compatible

Environmental Limits

Air Temperature: 0° to 40°C (104°F)

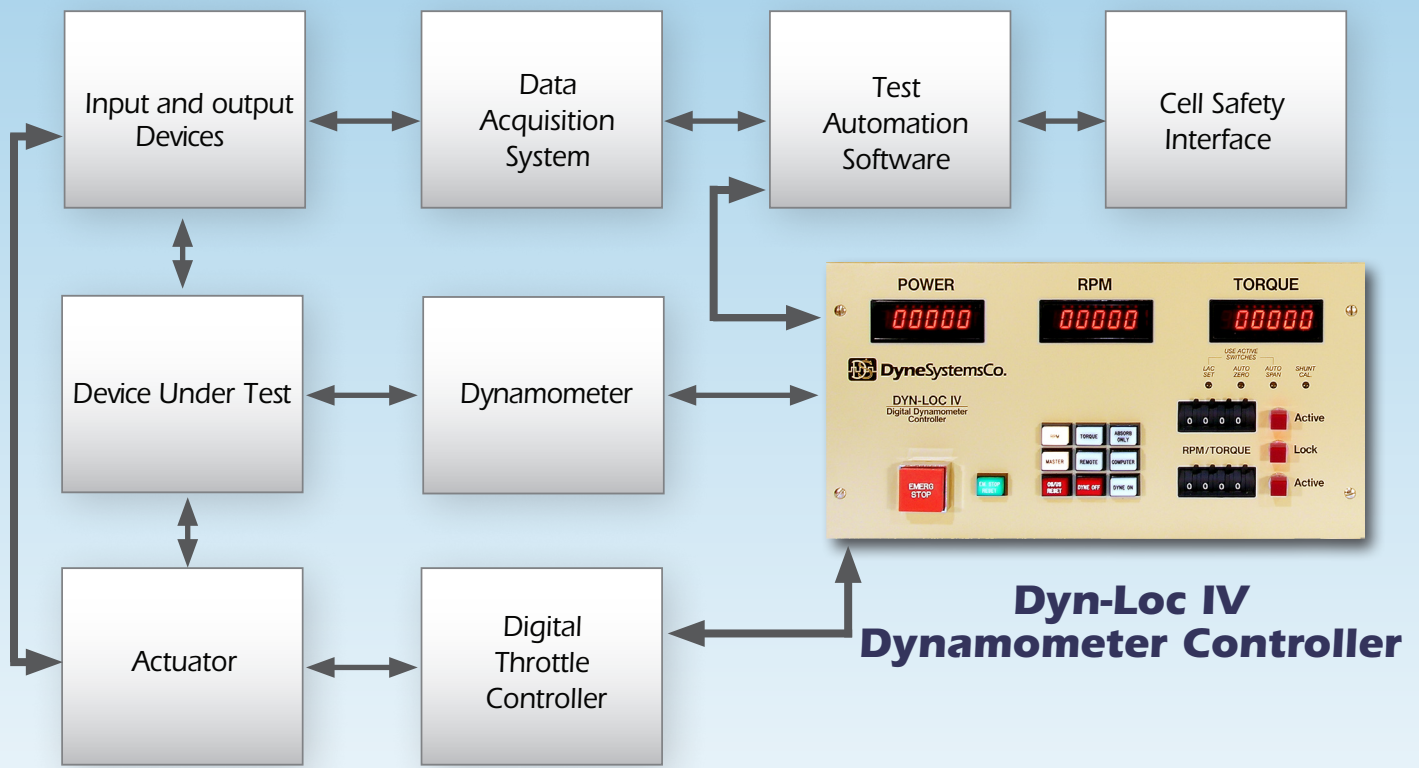
Relative Humidity: 0 to 95%
No condensation allowed

Optional Configurations

Rack mount, boom arm and
pedestal mount

Testing Applications

- Engine
- Electric Motor / Alternator / Generator
- Transmission / Transaxle / Differential



Dyne Systems Product Line

Closed Multi-Loop Dynamometer & Throttle Control

- Inter-Loc V
- DS630 Inter-Loc V Throttle Controller

Closed Single-Loop Dynamometer Control

- Dyn-Loc IV
- Dyn-Loc V

Closed Loop Throttle Control

- DTC-1
- DS830 Stand-Alone Throttle Controller

Open Loop Dynamometer Control

- DS820 Eddy Current PAU

Closed Loop Water Flow Control

- EWC-1

5-Gas Exhaust Analyzer

- XM2000

Data Acquisition

- Companion II: Dyne Systems proprietary
- Companion III: Yokogawa based
- Companion IV: NI cRIO based

Test Automation Software

- Cell Assistant for Windows
- Cell Assistant for LabVIEW™ (VeriStand™)

Test Cell Safety PLC Interface

- CIA I: Automation Direct / Koyo
- CIA II: Horner
- CIA III: ABB
- CIA IV: Allen-Bradley

Throttle Accessories

- Actuator, Remote Pendant, Cables

Eddy Current Dynamometers

- 5–5000 Hp

AC Dynamometers and Drives

- 5–1600 Hp

DC Dynamometers and Drives

- 5–1200 Hp