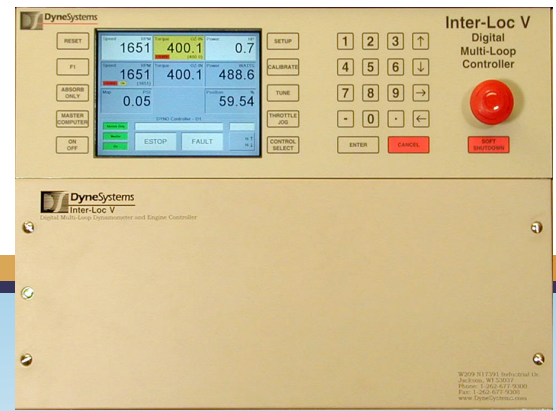


Inter-Loc V

Dynamometer & Throttle Controller



Features

- Up to three controller modules with programmable analog outputs (dynamometer or throttle) may be installed or added at any time
- Updates all control loops 500 times per second
- Feedback control includes speed, torque, throttle position (mechanical and by-wire), manifold vacuum and manifold absolute pressure (MAP)
- Ability to adjust PID control parameters during operation
- Safety monitoring of coolant, PAU On, PAU Okay and loss of Master Enable
- System protection including Hard and Soft Overspeed, Hard Over Torque, and multiple E-stop options.
- Includes 15 programmable digital outputs and 5 programmable digital inputs. All are +24 VDC PLC compatible
- Integrates with supervisory computer or PLC for the purposes of automated testing and data acquisition
- Includes EtherNet and RS232 serial communication ports
- Communication drivers available for NI-LabVIEW, MS-Visual Basic and MS C++
- External/internal shunt calibration for torque transducers
- The OCS contains a full VGA active matrix color LCD display with touch screen, and a membrane keypad

Testing Applications

- Engine
- Electric Motor / Alternator / Generator
- Transmission / Transaxle / Differential
- Component / Gear Box / Lubricants

The Inter-Loc V (IL5) is a closed loop modular digital multi-loop dynamometer and throttle controller. Its objected orientated design allows for intuitive and easy configuration. All major controller functions are implemented in software which allow for new features to be easily deployed. The Operator Control Station (OCS) is the most common stand-alone interface to the Inter-Loc V. All the functionality of the Inter-Loc V can be accessed and/or controlled from an OCS or via a computer running Cell Assistant.

Dimensions

IL5: 19" Rack x 7"h x 13"d
OCS: 19" Rack x 5.5"h x 5"d

Control Power

IL5:
120 V, 3.0 Amps

OCS:
100-240 V, 2.0 Amps
50/60 Hz compatible

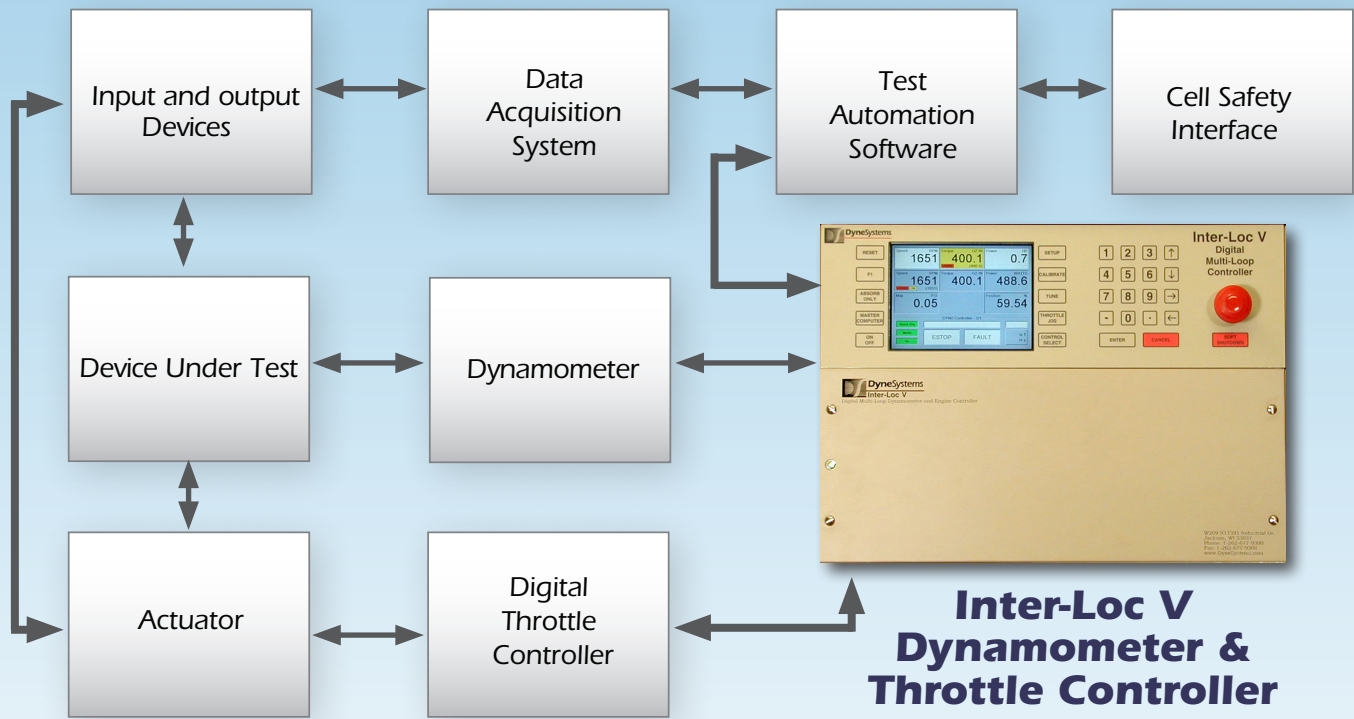
Environmental Limits

Air Temperature: 0° to 40°C (104°F)

Relative Humidity: 0 to 95%
No condensation allowed

Optional Configurations

Rack mount, pedestal mount and boom arm



**Inter-Loc V
Dynamometer &
Throttle Controller**

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