Dyne Systems

Inter-Loc V / Instrumentation

The Inter-Loc V is a stand-alone, multi-loop dynamometer controller capable of providing closed loop PID based control for up to three dynamometers or throttle control devices. PID loop rate is 500 times per second. This provides fast, precise, repeatable control, even at rapid transient rates. The Inter-Loc V is modular in design, so only the components required for the specific testing application are integrated into the control system. The basic unit has three slots into which any combination of dynamometer or throttle control modules can be inserted. External instrumentation is connected to the Sub-D connections on each module.

Features

- Parameter based configuration through an object-oriented design making configuration intuitive. Configuration parameters can be easily saved to a file for backup, uploaded into the Inter-Loc V for parameter restoration and printed from a text file.
- Manual operation, configuration, calibration and tuning of the Inter-Loc V is available through the optional touchscreen based Operator Control Station (OCS). The OCS utilizes a keypad for setup functions and insertion of set points, while a touchscreen displays data, status messages.
- Multi-point dead weight calibration and single point shunt calibration.
- Graphical tuning feature that allows all tuning parameters to be quickly adjusted while observing changes to the system response on a graphical display.
- (15) 24 Vdc programmable digital outputs and (5) 24 Vdc programmable digital inputs, which allow integration of test cell control functions.
- Configuration, tuning, and calibration security is available. The security administrator has complete control over which of these features is available to the operator.

Custom Software Development

An ASCII-text based protocol is available allowing a host computer to automate the operation of the Inter-Loc V controller. The ASCII command protocol is a great choice for many software developers as the implementation is not dependent on any particular programming language or operating system.

Optional Components

- Dynamometer Control Module
- Throttle Control Module
- Analog Isolation Module

Testing Applications

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

Specifications

Dimensions (W x H x D):

- IL5: 19 x 7 (4U) x 13 in. (483 x 432 x 330 mm)
- OCS: 19 x 5.5 x 5 in. (483 x 140 x 127 mm)

Control Power:

- IL5: 120V, 3.0 amps
- OCS: 100-240 V, 1.0 amps
- 50 / 60 Hz Compatible

Environmental Limits:

- Air Temp: 0° to 104°F (40°C)
- Relative Humidity: 0 to 95%
- No condensation allowed

Mounting Options:

- Rack Mount
- Pedestal
- Boom Arm

Everything you need to succeed

Dyne Systems is a division of Taylor Dynamometer
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