

# CIA-II

## Test Cell PLC Interface



## Features

- Utilizes Horner® PLC hardware
- Standard touch-screen interface, capable of:
  - » Test cell function control
  - » Feedback of control process, setpoints and safeties
  - » Viewing of test cell device status and data trending
  - » Viewing alarm history and error codes
- Standard Interface includes:
  - » 7 dedicated push buttons and visual indicators for: Console Power On and Off, Computer or Manual Test System control, Fault Reset, Alarm for faults, Alarm Silence, Computer Watchdog
  - » 1 audible fault alarm
  - » 4 customizable push buttons and visual indicators
  - » 16 solid-state digital inputs
  - » 16 relay outputs
- All I/O channels and user interface screens can be customized based on the application
- Optional Analog I/O and PID control are available
- Units are expandable and flexible
- Customized software available as an option

## Testing Applications

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

The Cell Interface Assistant II (CIA-II) is a PLC based monitoring system (24VDC I/O logic) used to control/monitor devices and functions in a test cell environment. CIA-II is capable of monitoring cell safeties including temperature, fluid level, pressure, flow rate, etc. Horner PLC Process Control (PID) is available when a true closed loop process is required (e.g. engine cooling control, flow control, level control, and other ancillary functions). All channels come with the ability to set alarms, with customizable limits on analog channels. The flexibility of the CIA-II allows it to accommodate customer-specific application requirements.

### Dimensions

**19" Rack x 7"h x 15"d**

### Control Power

**120 V, 15.0 Amps**

### Environmental Limits

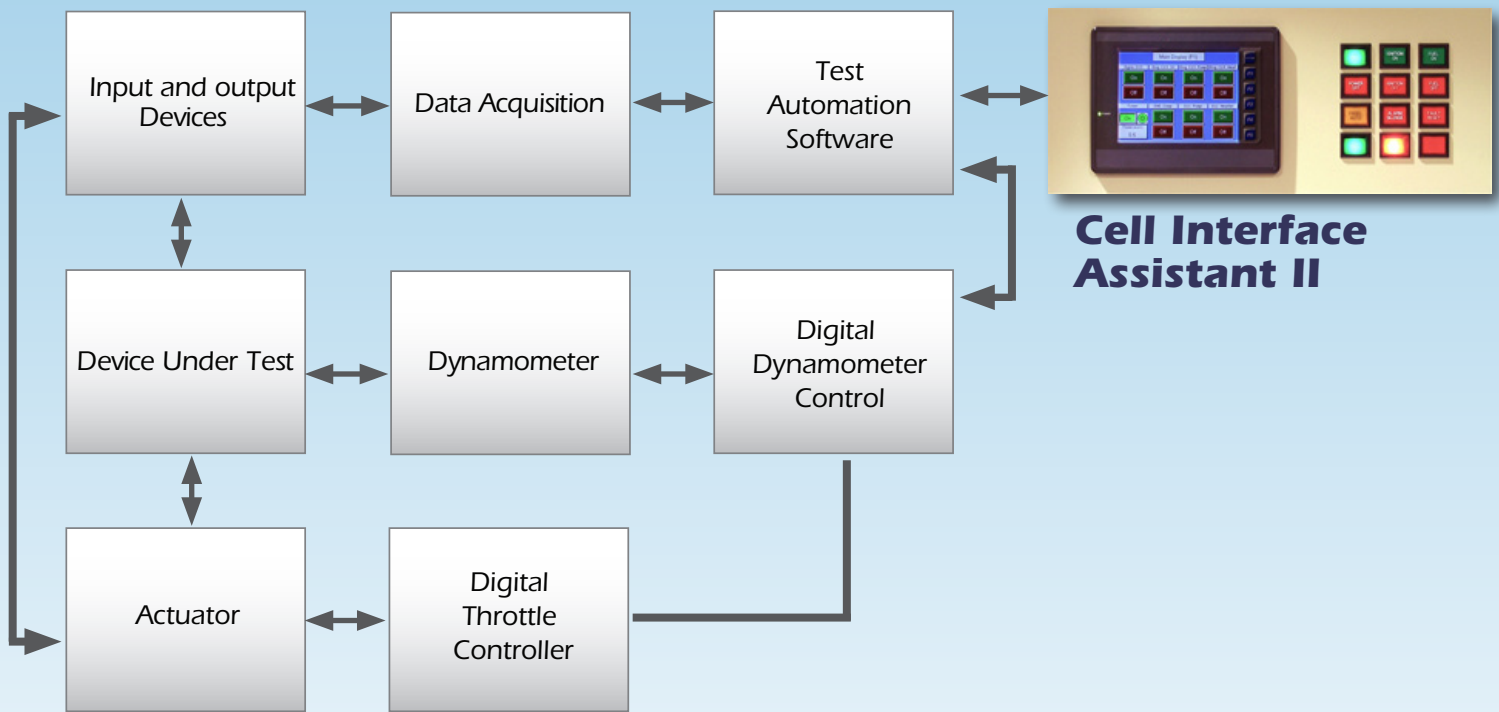
**Air Temperature: 0° to 40°C (104°F)**

**Relative Humidity: 0 to 95%**

**No condensation allowed**

### Optional Configurations

**Desktop Console**



## 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