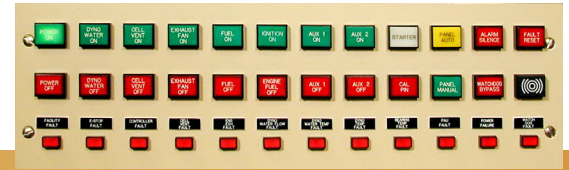


CIA-I

Test Cell PLC Interface



Features

- Utilizes Automation Direct/Koyo PLC hardware
- Custom Interface includes:
 - » 8 dedicated push buttons for: Console Power On/Off, Computer/Manual test system control, Fault Reset, Alarm for faults, Alarm Silence, Computer Watchdog
- 16 customizable push buttons to control both test system and DUI functions, including Ignition, Fuel, Starter, Cell Vent, Dyno Coolant, DUI Exhaust and more
 - » 12 Fault LEDs: 5 dedicated and 8 customizable
 - » On/Off control for console centrally located
 - » A UPS can be integrated to provide controlled shutdown in case of facility power loss
- Customizable I/O is locally located and can be expanded with Remote I/O where needed (e.g. in test cell)
- Hour Meter available
- Analog I/O available (voltage, current, TC, RTD)
- Units are expandable and flexible
- PLC programming software is provided with the CIA-I, allowing for custom future additions and modifications

Testing Applications

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

Cell Interface Assistant I (CIA-I) is a PLC based monitoring system (24VDC) used to control/monitor devices and functions in a test cell environment. CIA-I is capable of monitoring cell safeties including temperatures, fluid levels, pressures, flow rates, etc. All channels come with the ability to set limits, alarms, etc. to accommodate your specific application requirements. Easily switch between Manual mode and Automated mode when running Cell Assistant for Windows® or LabVIEW®, or other automation software.

Dimensions

19" Rack x 7"h x 15"d

Control Power

120 V, 15.0 Amps

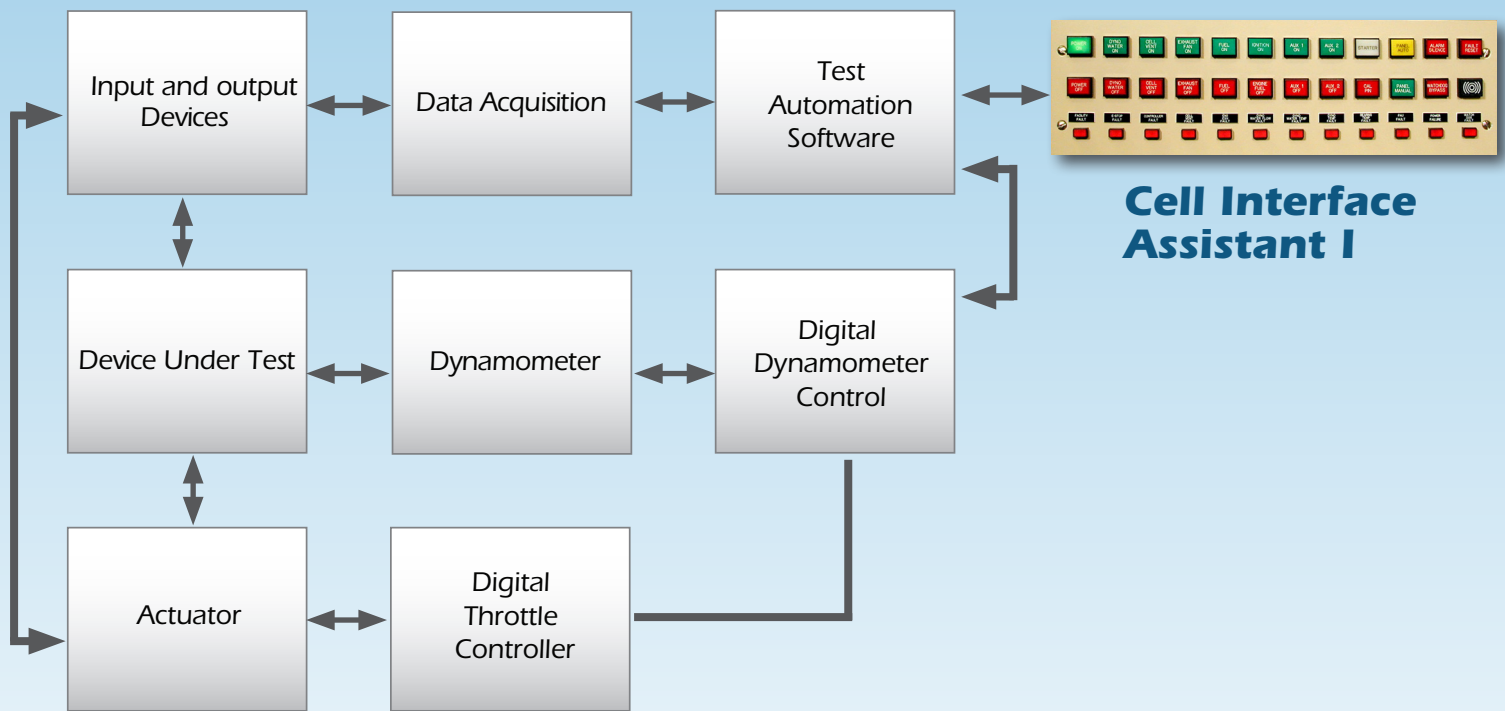
Environmental Limits

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

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