



## Interactive. Powerful. Communications. The CDL Gateway™ HMI

### Application

The Monico CDL Gateway™ HMI (Human Machine Interface) is a “Plug & Play” protocol converter, data concentrator, and a full featured HMI which provides direct access to engine monitoring parameters from Caterpillar® equipment via many different protocols and data map versions. It is used in applications where engine data needs to be accessed locally and from a PLC, a Human-Machine Interface (HMI), building management system, SCADA System or some other remote monitoring device. No intermediate devices are needed and little or no setup is required.

The CDL Gateway™ HMI is a very powerful device that can communicate in up to seven simultaneous protocols over four physical ports. This low-cost HMI functions as an operator interface for engine diagnostic codes and other critical maintenance information including text descriptions of fault codes. This product is outdoor rated, so it can function as the system wide operator interface for not only engine data, but information from the system PLC, station PLC, and other controllers in the system. It has double the backlighting of indoor units, which makes it visible even in bright sunlight.

### Benefits and Features

- 10" Color TFT Touch Screen
- Pre-configured solutions with over 400 data registers
- Full fault and diagnostic code support with text descriptions
- UL 1604 Class I Division II Approval
- Automatic engine detection and configuration
- Outdoor rated with UV protection
- Built-in Web Server
- SMTP/SMS Mail Server
- Real-time data logging via Compact Flash (2 GB Max)
- Sync Server to sync logging data with remote server
- Full-featured Touch Screen with complete custom graphics capability
- Two RS-232 Ports; One RS-485 Port; One Ethernet Port that can communicate using four unique protocols simultaneously
- Updates about 10-15 times the rate of other products
- Eliminates the need for the CCM Module or the PL 1000E as well as modules required to convert Modbus on Allen Bradley PLC's
- OPC Capability
- Provides engine data, diagnostics and event codes directly from the engine network into Allen Bradley, GE Fanuc, Siemens, and many other PLC's with very little or no programming required and without any intermediary devices including text description of codes

### MONICO SALES:

18530 Klein Church Road. Spring, Texas 77379  
T—281.350.8751 F—888.418.5955  
[sales@monicoinc.com](mailto:sales@monicoinc.com)



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### Pre Configured Versions

Monico has a variety of pre-configured CDL Gateway™ HMIs.

- Allen Bradley
  - ControlLogix
  - SLC 500
  - MicroLogix
- Siemens
  - S7/S5 via PPI
  - S7/S5 via MPI
  - S7/S5 via TCP/IP
- GE Fanuc
  - 9030
  - VersaMAX
- Modbus
  - RTU
  - TCP/IP
- BACnet
  - MSTP
  - UDP/IP

### Other Supported Protocols

In addition to our pre-configured CDL Gateway™ HMIs, Monico can support many other protocols.

- |                    |                 |
|--------------------|-----------------|
| • CANOpen          | • Omron         |
| • DeviceNet        | • ProfiBus      |
| • Ethernet IP      | • Schneider     |
| • Garmin NMEA 0183 | • Telemecanique |
| • Honeywell        | • Toshiba       |
| • IDEC             | • WITS          |
| • Koyo             | • Yokogawa      |
| • Mitsubishi       |                 |

### Compatible Engines and Controls

The CDL Gateway™ supports any ADEM™ Electronic Engine Controller. Some of the more commonly supported engines include:

- |            |             |
|------------|-------------|
| • 3400     | • EMCP II+P |
| • 3500     | • EIS/AFR   |
| • G3400    | • VIMS      |
| • G3500    | • C9        |
| • G3600    | • C15       |
| • G3520    | • C18       |
| • GCM34    | • C32       |
| • ITSM     | • C175      |
| • ICSM     | • C280      |
| • EMCP II  | • MARINE    |
| • EMCP II+ |             |

### Input

- Two-wire Data Link
- Concentrate data from other devices using multiple protocols

### Installation

- Mount the CDL Gateway™ HMI in a panel near the engine
- Connect the Two-Wire Data Link to the Gateway
- Supply 24 VDC power to the Gateway
- Connect the Host Device (PLC, SCADA, BMS)
- Begin scanning Registers to receive engine data

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A-D HAZARDOUS LOCATIONS!**

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