



Monico Gen. 2 Gateways

CDL Gateway™, J1939 Gateway™, & Custom Protocol Gateway

Monico's Gen. 2 Gateways come pre-configured for easy installation into your specific protocol conversion/data aggregation applications. These gateways provide direct access to engine monitoring parameters from a wide range of industrial engine makes and models including, but not limited to, Caterpillar®, Cummins, and John Deere. Monico Legacy Gateways can be used to collect information from a myriad of devices which use multiple protocols over multiple ports and put all the information in a common, pre-programmed data map. Basic and PLUS versions are available for each gateway.

Basic Features:

- Over 400 Pre-configured Parameters
- Full Fault and Diagnostic Code Support with Text Descriptions
- LED Indicating Lights for Power and Comms
- C-UL Approved for Class I Div II Groups A-D
- "Plug & Play" Operations
- Automatic Engine Detection and Configuration
- Free Access to MonicoView™ Software for Field Settings and Setup Adjustments
- Pulls Parameters at a Rate Between 20-60 parameters per second
- 10-15 Times Faster than Previous Customer Communications Products

Available Protocols and Interfaces:

Monico Legacy Gateways are capable of direct communications between various interfaces without an intermediate device. Over 100 protocols are available; here are a few:

- Allen Bradley ControlLogix & SLC
- BACnet
- CAT® Data Link
- Modbus RTU/TCP
- Omron
- S.A.E. J1939
- Siemens
- SNMP

Ask a Monico sales representative for a complete list of protocols.

PLUS Features:

Real-Time Data Logging

Multiple data logs can be implemented with varying timing formats and file structures.

SMTP and SMS Servers

Allows for the ability to trigger traditional email messages and text messages upon configurable circumstances.

Virtual HMI Web Server

Allows for remote monitoring and control of an engine from a remote location.

Sync Server

Server is programmed to push log files to a server on the same network.

FTP Server

Allows a user to transfer log files automatically from a remote network.

OPC Capability

Allows a common server to poll data from multiple protocols under one system in combination with OPC WORX.

Time Manager

Syncs the on-board real-time clock with a server or internet standard clock, which is particularly useful when data logging.



Monico Gen. 2 Gateway Specifications your machine. your data. your way.

Environmental Conditions	<ul style="list-style-type: none"> • Operating Temperature Range: 0 to 50 °C • Storage Temperature Range: -30 to +70 °C • Vibration to IEC 68-2-6: Operational 5 to 150 Hz, 2 g. • Shock to IEC 68-2-27: Operational 30 g.
Communications	<ul style="list-style-type: none"> • RS232 Programming Port • RS232 Comms Port • RS422/485 Port • 10/100 Ethernet Port • USB Port for User Interface <p>Available Option Cards:</p> <ul style="list-style-type: none"> • CAT@ Data Link Port for CDL • CANbus Port for S.A.E. J1939 • Additional Ethernet, RS232, and RS485 Ports
Power Requirements	<p>24 VDC ±10% Must use NEC Class 2 or Limited Power Source (LPS) rated power supply</p>
LED Indicating Lights	<ul style="list-style-type: none"> • STS – Status LED indicates condition of gateway • TX/RX – Transmit/Receive LEDs show serial activity • Ethernet – Link and activity of LEDs • CF – indicates card status and read/write activity
Memory	<ul style="list-style-type: none"> • On-board User Memory: 4MB of non-volatile flash memory • On-board SDRAM: 2MB • Memory Card: 2GB CompactFlash
Mounting	<p>Snaps onto standard DIN rail Mount in a panel near the engine</p>
Certifications	<p>CE Approved</p> <ul style="list-style-type: none"> • EN 61326-1 Immunity to Industrial Locations • Emission CISPR 11 Class A <p>Safety requirements for electrical equipment for measurement, control, and laboratory use:</p> <ul style="list-style-type: none"> • EN 61010-1: General Requirements • EN 61010-2-201: Particular Requirements for Control Equipment <p>RoHS Compliant UL Listed: File #E302106 UL Hazardous: File #E317425 ABS Certificate #09-HS426719-B-4-PDA Refer to EMC Installation Guidelines section of the bulletin for additional information.</p>
Weight	<p>15.1 oz. - 428 g. - 0.944 lbs.</p>