

GLOBAL MESSENGER



The Global Messenger is an integrated remote telemetry hardware device that allows customers to collect and track multiple types of information about their Global Pump, including machine location, service usage hours and health and productivity information.

Designed specifically as an integrated telemetry and alarm notification system, the Global Messenger works seamlessly with electronic engine controllers, ECUs and other devices that support CANbus communications. The Global Messenger gathers data from a machine's on-board system and transmits it wirelessly to the network operations center, providing you critical information on your machinery in near real-time. As diagnostic messages are generated from the pump unit, the Global Messenger is capable of notifying these occurrences, right when they happen, with location, date and time.

By providing remote access to machine information owners can now manage their field equipment assets more effectively. The results are improved fuel efficiency, lower operating costs and a better return on investment.

FEATURES

Display J1939 fault codes/PGNs in plain text

Diagnose/troubleshoot engine or equipment problems

Compact, rugged, weatherproof design

Simple plug-and-play installation

Works with any brand diesel engine

Customizable

Affordable web based virtual real time monitoring and GPS tracking service

Supports serial communication

Optional embedded wireless telemetry

KEY HIGHLIGHTS

- Start, stop, & variable speed control with acknowledgment of the commands.
- Read and transmit customer flow meters, auxiliary fuel tank levels, pit levels, suction & discharge gauge reading, and engine functions.
- Customizable alarms to cell phone via text, e-mail, or phone call.
- Monitor auto operations of the machines.
- Generate reports on a scheduled basis.
- Track the equipment location and usage.
- Programmable auto-exercise of engine.

GLOBAL PUMP

10162 East Coldwater Road, Davison, MI 48423

Tel: 810.653.4828 Fax: 810.658.0632

1.866.360.PUMP

www.globalpump.com

GLOBAL MESSENGER



TYPICAL CONDITIONS MONITORED

GPS Coordinates (location)

1 – General purpose on/off input

1 – Analog input

Standard values read via CANbus

Engine hours, RPM, Battery Voltage, Oil Pressure, Fuel Level, Oil Level, Oil Temperature, Coolant Level and Coolant Temperature

- All fault conditions reported by PGN 65226 (DM1 - Diagnostic Message)
- All fault conditions reported by PGN 60416 (TPCM used to report multiple diagnostic messages in a single CAN message)

Optional values read via CANbus

- Up to 8 User-specified PGN/FMI analog values
- Up to 32 User-specified PGN/FMI on/off values

FLASH memory for application – downloadable via serial port or via GSM connection – 512K

Low-low power SRAM – 512K – battery backed up

DIP switches to select

- Serial port function w Modbus Slave, Debug, None
- Serial port interface w RS232 or RS485 per port
- Modbus Slave ID w 126-133
- Port 2 baud rate w 4800-38400

Event logger accessible via serial port or via GSM connection

8 LEDs on-board indicate

- GSM status
- GPS status
- CAN status
- Serial port status
- Power
- 2 available for user-specified conditions

General purpose inputs

- 1 digital/1analog on 12-pin Deutsch connector
- 3 digital/1analog on 16-pin pluggable connector
- Digital inputs are contact closures to ground
- Analog input is 10-bit, 0-3VDC or 0-20ma or resistive input for fuel sender

Receive SMS messages for reconfiguration or on-demand reporting

MESSENGER BOARD SPECIFICATIONS

3.25" x 3.95"

- GSM/GPS board piggy-backs on top of Global Messenger board
- 4 mounting holes

CAN controller

- Supports protocol version 2.0 part A and B Active
- Bit rates up to 1.25M bit/second
- 32 independent PGN message objects

Port 1 – RS232 or RS485 – Modbus RTU Slave

Port 2 – RS232 or RS485 – Modbus RTU Master or Special

Battery Backed up Real-Time Clock, event log, data log, and more – 10 year life

SM-GPRS with SIM card holder embedded on Global Messenger

Certified with FCC, PTCRB and ATT for GSM/GPRS end-user applications

Extreme low power mode when engine is not running or other user-specified mechanism

32-bit processor

OEM CAPABILITIES

Virtual real-time transfer of monitored conditions

Local computations from monitored conditions

User-specified PGNs to be monitored

Event and data logging

Exception reporting to Internet-based applications

Tunneling into the Global Messenger or equipment attached to the Global Messenger via a wireless connection

SMS messaging sent on monitored conditions

Parameter setting via SMS messaging

PHYSICAL CHARACTERISTICS

Sleep Mode	12VDC @ 20mA
Monitoring Mode	12VDC @ 120mA
GPRS Transmit Mode	12VDC @ 800ma peak Temp.
Industrial Temp. Range	-40 to +70C
NEMA 4X Enclosure	5.5"H x 5"W x 1.3"D, with mounting holes

GLOBAL PUMP

10162 East Coldwater Road, Davison, MI 48423

Tel: 810.653.4828 Fax: 810.658.0632

1.866.360.PUMP

www.globalpump.com