RULE THE MACHINES

Our commitment to delivering simple, easy-to-use technology and services with world-class reliability has made M2M the market leader in asset monitoring and management services for the Oil & Gas industry. Streamline your operation with data collection and organization provided by the cutting edge PLE601.

Call +1-877-487-9626 to manage your jobsite with more efficiency than ever.

SEAMLESS FUNCTIONALITY

• The PLE601 is designed to work in harsh work environments allowing for virtually maintenance-free operation
• Collects and monitors information needed to maximize performance of your assets
• Enables you to identify and respond to issues that may affect your operations
• Supports configuration, diagnosis and firmware updates through both physical and over-the-air connections
FEATURES & BENEFITS

- When the configuration file is loaded into the PLE601, the gateway functionality is enabled. The gateway functionality allows the customer to read equipment data using various industrial protocols over RS-232, RS-485, or TCP/IP. The standard configuration provided by Caterpillar is customized to the engine. The configuration also includes a standard protocol mapping that is consistent across all engines. Industrial protocols supported by the PLE601 include:
  - Modbus Master and Slav
  - Allen Bradley Ethernet I/P
  - Siemens S7

The gateway functionality can also be used to bring data to the PLE601 from other devices and added to the Customer Defined Parameters.

- When the PLE601 is combined with the PL641, PL631, or a customer supplied internet connection, remote collection of equipment information is enabled. The information that is available remotely includes*:
  - Location of the Equipment
  - Engine Running Hours
  - Diesel Fuel Used
  - Fault Codes
  - Alerts (Engine Status, Fault Codes, Device Status, Geo Boundary, Battery Voltage, Fuel Level, and Power Loss)
  - Engine Parameters (Engine Speed, Engine Coolant Temperature, Engine Oil Pressure, and Engine Load Factor)
  - Customer Defined Parameters (Determined by Subscription)

*NOTE: Not all information is available on every piece of equipment. The reporting frequency of the information is determined by the subscription.

PHYSICAL
- Enclosure Material: Heavy Duty Aluminum
- Dimensions (LxWxH) mm: 194 x 169 x 57 mm
- Mounting Hole Pattern: (LxW) mm 165 x 140 mm
- Weight: 1.36kg
- Connectors: 70 Pin Male

ENVIRONMENTAL
- Operating Temp: 40°C to +85°C
- Storage Temp: -50°C to +85°C
- Ingress Protection: IP68 (34.5 kPA)
- Vibration: 9.73 grms, 24Hz – 2000 Hz

CONFIGURABLE PARAMETERS
- Geofence areas for worksites: Over-the-Air through Radio
- Stop Reports: Enable duration limits
- Engine Runtime: Set the initial hours reading
- Data Logging: Supports message and event storage for up to 7 days while out of cellular/satellite network coverage
- Digital Inputs: Assign Equipment-specific functions
- Digital Outputs: Assign Equipment-specific functions
- Serial Port Operations: Assign Serial Sensor Communications

INPUT VOLTAGE
- Voltage Range: 9.0 to 32.0 V DC
  The PLE601 passes Class B performance criteria (ISO 7637-2:2004) for both 12V and 24V systems for the following test conditions: Pulse 1, 2a, 2b, 3a, 4 & 5 - Level IV
- Protection: Reverse polarity

CURRENT CONSUMPTION (TYPICAL)
- Sleep Current: 1.5 mA @ 12V, 2.3 mA @ 24V (wakes to Keyswitch, DCD Wakeup, STB Wakeup)
- Idle Current: 250-200 mA @12/24V
- Peak Current: < 2A @24V

INPUTS & OUTPUTS
- 4 Digital Input: Active low signal ready
- 3 Sinking Drivers: 300mA maximum sinking current
- 1 Serial Port: Five wire RS-232 handshaking signaling. EIA/TIA-232-F Compliant (I)
- 2 Serial Ports: 3 wire RS-232
- 2 J1939: CANBus
- 4 Ethernet Ports: 10/100 Base-T
- 1 RS-485 Port
- 1 CDL Port: Cat Data Link
- 1 USB Host
- R-terminal Input: Ready for direct connection
- Key Switch Input: Active high signal ready to detect ignition key switch operation

To learn more about the services we offer please check out our website at www.m2mdatacorp.com.

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