

OMNIPRO

Kohler DEC 550 Modbus

Installation Guide



Parts List

Item	Part Number	Qty
OMNIPRO Monitor Unit — Hardwire configuration	OMC.340000	1
Cellular Antenna, 4" Magnet Mount	OMC.100105	1
OMNIPRO Power Cable	OMC.240000	1
OMNIPRO 4-alarm RS485 start/stop relay cable	OMC.260000	1





1. Unpack Components

- Unpack the monitor, antenna, and data and power cable.
- Inspect all components to ensure there is no shipping damage.

2. Install the Antenna

- Place the antenna vertically at the center of the roof of the generator.
- Route the antenna cable into the area of the generator control.
- Ensure a drip loop lower than the monitor to prevent water from running down the antenna cable into the monitor connection.

3. Attach the Antenna Cable

- Attach the antenna cable to the front of the monitor and tighten thumb tight.

4. Attach the Monitor

- Attach the monitor via its magnetic feet on top of the engine controller or another appropriate location.
- Horizontal surfaces are preferred, but the unit may be mounted vertically or upside down if necessary.

NOTE: *If mounted vertically, install the monitor with the cables facing down to prevent water from entering the enclosure.*

5. Connect the Monitor

- The monitor connects to the Kohler DEC550 Controller via wiring diagram shown below

6. Power On and Check LEDs

- Turn on the monitor and confirm that the LEDs illuminate and blink.
- If the LEDs do not light, check for power wires at the battery.

NOTE: *Scan the QR code on the unit for the expected LED light sequence.*

7. Confirm Installation

- Allow 15 minutes for the monitor to log into the network.
- Call OmniMetrix on 770-209-0012 or email techsupport@omnimetrixconnect.com to confirm successful installation.



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Cummins DEC550 — Wiring Diagram

SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9–30 Vdc)	Battery +
	Black	Ground	Battery -
Blue	Green	Data +	P20-2
	White	Data -	P20-3

MAIN LOGIC BOARD

P18 RS232 CONNECTIONS

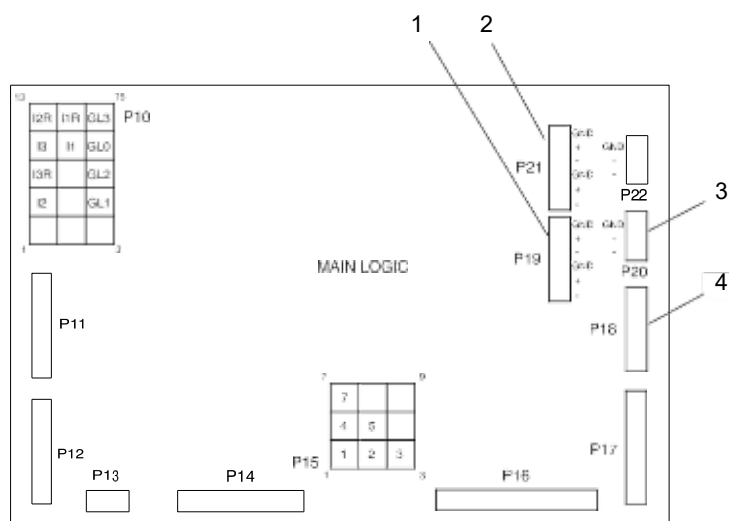
P18-1 CD
 P18-2 RX
 P18-3 TX
 P18-4 DTR
 P18-5 GROUND
 P18-6 DSR
 P18-7 RTS
 P18-8 CTS
 P18-9 RI

P20 RS485 NON-ISOLATED CONNECTIONS

P20-1 GND
 P20-2 +
 P20-3 -

P21 RS485A ISOLATED CONNECTIONS

P21-1 GND
 P21-2 +
 P21-3 -
 P21-4 GND
 P21-5 +
 P21-6 -



ADV-6602B-

P19 spare connector for factory use
 P21 RS-485 KBUS isolated connections
 P20 RS-485 Modbus non-isolated connections
 P18 RS-232 non-isolated connections

