EMCP 4.3/4.4 Remote HMI Display





Picture shown may not reflect actual configuration.

Features

- Display graphics are configurable with embedded runtime tool that provides the capability to customize screens. This capability supports modern and classic icon graphics. Where classic style has traditional representation for gauges.
- Lockout security provision to assure platform integrity.
- Active screen may be changed using simple swipe gesture.
- Display functionality includes remote start-stop when generator set control is set to automatic.
- Designed for field installation using mounting template and terminals that facilitate inter-connection at site.
- · Field configurable alarm terminals.

Specification		
Touch Screen	Multi-touch w/ gloves	
BroadR-Reach® Ethernet (4)	100 Base-T, 2 wire	
Ethernet (2)	10 Base-T, 4 wire 300 ft without Repeater	
J1939 (2)	CAN Bus	
USB (1)	USB 2.0, 500 mA	
Response time	25 ms	
Active Low Digital Inputs (4)	Switch to ground signal	
Active High Digital Inputs (2)	Switch to battery signal	
Power Mode	Normal / Sleep	
Real-time clock	Low power mode, Accurate Time	
Speaker	Amplified Audio	
Alarm Audio Output Terminals	Unamplified Audio	

EMCP 4.3/4.4 Remote Human Machine Interface (HMI) Display

The EMCP remote HMI display with interactive 8" color screen features easy to understand icons and labels. The system level graphics provides parameters for engine, generator and utility that are supported in multiple languages – English, Spanish, French, Chinese or German.

Fully integrated with diesel generator sets C27 - C175 50/60 Hz (400 V - 15 kV).

High-Resolution LCD			
Colors	16.7 million		
Backlight	LED		
Resolution 8"	800 x 480		
Display Readability			
Outdoor Sunlight Viewable			
Polarized Sunglass Compatible			
Dimmable			
Wide Viewing Angles Horizontal / Vertical	85° / 85°		
Input Voltage 12/24 Volt Systems			
Unit will tolerate 60V maximum transient for 5 minutes			
Meets SAE J1113/11 cold cranking waveform specifications			
Current Consumption			

Current Consumption	
Sleep Mode (12/24V)	1.0/0.5 mA @ 25°C
Standby Mode (12/24V)	40/30 mA
Nominal Operation (12/24V)	1.2/0.7A

Environment		
Operating Temp	-40°C to +85°C	
Storage Temp	-50°C to +85°C	
Ingress Protection	IP66	
Vibration	2.2 G-rms max. (EC-1)	

Interfaces and Connectors		
Primary Connector 44 Position		
USB 2.0 (1)	Type-A receptacle	
Ethernet Port	Interface	

Regulatory Compliance

REACH, CE (EMC, RoHS), ACMA, EEU, FCC, IC ICES, UL, IECEx, ATEX, NFPA 70

EMCP 4.3/4.4 Remote HMI Display



Data

Histogram and data Logging

- Alarm & Shutdown Reset
- Condition Status warning (amber) / shutdown (red)
 - Generator set data Conditions Displayed Emergency stop shutdown Overcrank shutdown Low coolant temperature warning High coolant temperature warning / shutdown Low oil pressure warning / shutdown Overspeed warning / shutdown Low coolant level warning / shutdown Low fuel level warning / shutdown EPS supplying load status Control switch not in auto warning High battery voltage warning / shutdown Low battery voltage warning / shutdown BATT charger AC failure warning / shutdown Low cranking voltage Engine running Tier 4 SCR

Engine Data Displayed

- Engine Hours, Total Cranks, Starts
- Temperatures (coolant, air, exhaust)
- Filters Diff. Pressures (oil, air, fuel)
- Pressure (Boost, Intake Manifold)
- Throttle Position, Battery Voltage

Generator Data Displayed

- Voltage L-L/L-N, Amps, Power Factor
- kW, kVA, kVAr, Hz
- Phase Values (Voltage, kW, Amps, Power Factor)
- Phase Winding Temperature
- Bearing Temperature
- Generator Breaker Status

Voltage Regulator Data Displayed

Voltage, Amps

Utility Data Display (when applicable)

- · Utility Status
- Voltage L-L/L-N
- Phase Values (Voltage)
- kW, kVAr, Hz
- · Utility Breaker Status



Example: EMCP 4.4 with Remote HMI Display.



Display			
A	В	С	Weight
mm (in)	mm (in)	mm (in)	kg (lbs)
139 (5.7)	59.4 (2.34)	220 (8.66)	1.32 (2.91)

Information contained in this publication may be considered confidential. Discretion is recommended when distributing. Materials and specifications are subject to change without notice.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks

of Caterpillar and may not be used without permission.