



# EMCP 4.1 GENERATOR SET CONTROLLER

Caterpillaris leading the power generation market place with power solutions engineered to deliver unmatched performance, reliability, durability and cost-effectiveness.

## **FEATURES**

### **GENERAL DESCRIPTION**

The Cat<sup>®</sup> EMCP 4.1 offers AC metering, protective relaying and engine and generator control and monitoring. Engine and generator controls, diagnostics, and operating information are accessible via the control panel keypads.

### **BASIC RANGE OF ATTACHMENTS**

 Flexible packaging options for easy and cost effective installation.

### WORLD WIDE PRODUCT SUPPORT

- Cat dealers provide extensive pre sale and post sale support.
- Cat dealers have over 1,600 dealer branch stores operating in 200 countries.

### **FEATURES**

- A 33 x 132 pixel, 3.8 inch, graphical display denotes text alarm/event descriptions, set points, engine and generator monitoring, and is visible in all lighting conditions.
- Textual display with support for 28 languages, including character languages such as Arabic, Chinese, and Japanese.

- Integration with the CDVR provides enhanced system performance.
- Protective relaying engine and generator parameter viewing, and AC metering are all integrated into this controller.
- Up to 40 diagnostic events are stored in the non-volatile memory.
- Set points and software stored in nonvolatile memory, preventing loss during a power outage.
- Reduced power mode offers a low power state to minimize battery requirements.
- Three levels of security allow for configurable operator privileges.
- · Selectable units

Temperature: °C or °FPressure: psi, kPa, bar



# STANDARD FEATURES

Generator Monitoring	Voltage (L-L, L-N)     Current (Phase)     Average Volt, Amp, Frequency
Generator Protection	Generator phase sequence     Over/Under voltage (27/59)     Over/Under frequency (81 O/U)
Engine Monitoring	Coolant temperature Oil pressure Engine speed (RPM) Battery voltage Run hours Crank attempt and successful start counter
Engine Protection	<ul> <li>Control switch not in auto (alarm)</li> <li>High coolant temp (alarm and shutdown)</li> <li>Low coolant temp (alarm)</li> <li>Low coolant level (alarm)</li> <li>High engine oil temp (alarm and shutdown)</li> <li>Low, high, and weak battery voltage</li> <li>Overspeed</li> <li>Overcrank</li> </ul>
Control	Run / Auto / Stop control     Speed and voltage adjust     Local and remote emergency stop     Remote start/stop     Cycle crank
Inputs & Outputs	Two dedicated digital inputs     Six programmable digital inputs     Six form A dry contacts
Communications	Primary CAN data link
Language Support	Arabic, Bulgarian, Chinese, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Icelandic, Italian, Latvian, Lithuanian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Slovak, Slovene, Spanish, Swedish, Turkish
Environmental	Control module operating temperature: -40°C to 70°C  Display operating temperature: -20°C to 70°C  Humidity: 100% condensing 30°C to 60°C  Storage temperature: -40°C to 85°C  Vibration: Random profile, 24-1000 Hz, 4.3G rms

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