EMCP 4.4 Supervisory Control Panel (SCP)

Cat® EMCP 4.4 SCP
Supervisory Control Panel for Enhanced Load Add/Shed
For use with EMCP 4.4 Generator Set Control (GSC) Panels

Caterpillar is leading the power generation marketplace with power solutions engineered to deliver unmatched performance, reliability, durability, and cost-effectiveness.

General Description
The EMCP 4.4 SCP is a wall-mountable, NEMA 1 (IP10) shipped-loose control panel which adds 16-stage load add and load shed functionality to an EMCP 4.4 island mode system (non-utility paralleling).

Worldwide Product Support
• Cat dealers provide extensive pre- and post-sale support
• Cat dealers have over 1800 dealer branch stores operating in 200 countries

Features
• Design and functionality based on the proven reliability and serviceability of the EMCP 4.4 generator set controller
• Supports Multiple Generator Set Data Link (MGDL) paralleling
• Single-point monitoring of a non-utility paralleling generator set system with EMCP 4.4 generator set controllers
• Load add and load shed capability for 16 stages based on ratings of the steps and/or based on the ratings of the availability of real and reactive power
• Load shed and load add stages independent of the number of system or online generator sets
• Programmable descriptions, priorities, capacity, and time delays for each load step
• Manual load shed and load add capability
• System initiate via discrete contact or engine control switch
• Failsafe mode to minimize the disruption of power to loads in the event of a loss of communications
• 500 event status log that is time/date based and contains load step events
• System event log
• Best battery diode system
• Industrial ethernet switch (10/100 base T)
• 7-day/7-cycle system exerciser
• Fuel transfer control
• System monitoring display includes load step display, total kW display, and generator set status display
• Load bus control screen displays current and next load add or load shed step
• Load bus overview display includes
  - Status of each load step
  - Actual load (real and reactive) on each generator
  - Capacity (real and reactive) on each generator
• Generator set status display includes
  - ECS position
  - Alarm count
  - Shutdown count
  - kW and kVAr (% & value)
  - Breaker position
  - Engine hours
  - Load Sense Load Demand (LSLD) status
  - Generator and bus status

Image shown may not reflect actual configuration
Single EMCP 4.4 SCP with 16 Generator Sets and Ethernet Switches

System One-Line Diagram (sample)
Dimensions

TOP VIEW

914.4 [36.00]

LEFT SIDE VIEW

-304.8000 [12.00]

FRONT VIEW

640 [25.2]

BOTTOM VIEW

240 [9.45]

RIGHT SIDE VIEW

914.4000 [36.00]