

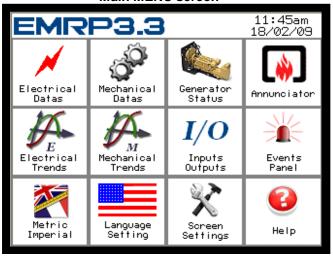
# Finally, a complete remote monitoring interface for the EMCP3 ®

The EMRP3 interface allows the user to remotely monitor all data (electrical, mechanical and events tables) available from a Caterpillar® EMCP3® generator controller and its optional modules. It also allows for easy data access and remote control of the generator via its 5.7" high-resolution TFT color touch screen. The built-in "Web Gate" function allows independent access to the EMRP3 with a simple Internet browser no matter where the user is located in the world. The EMRP3 module also has a Modbus slave communication port allowing the user to access the Modbus register grouped into contiguous register. Its simple system architecture makes it easy to integrate to new or existing EMCP3® controller applications. Simply configure the Modbus RS485 port on the EMCP3® controller and hook the EMRP3 up to 4kms away using a simple twisted pair cable... The EMRP3 connects to the controller, uploads its entire configuration, automatically recognizes installed EMCP3® options, populates all its monitoring screens and immediately starts real-time monitoring!

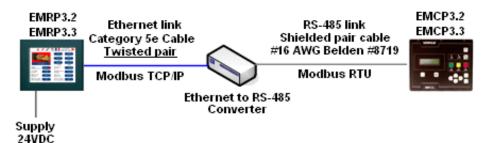
#### Default OVERVIEW/CONTROL screen



#### Main MENU screen



# SYSTEM ARCHITECTURE



## WEB-GATE FUCTIONALITY

With the addition of an Ethernet switch, the WEB-GATE functionality allows any user to remotely¹ connect to the **EMRP3** via standard WEB browser and access the same screens as the local operator, as if he/she were standing in front of the unit.

#### Available models

- EMRP3.2855TT EMCP3.2® controller communication via Modbus TCP/IP Master, Modbus TCP/IP Slave
- EMRP3.2855TR EMCP3.2® controller communication via Modbus TCP/IP Master, Modbus RTU Slave
- EMRP3.3855TT EMCP3.3® controller communication via Modbus TCP/IP Master, Modbus TCP/IP Slave
- EMRP3.3855TR EMCP3.3® controller communication via Modbus TCP/IP Master, Modbus RTU Slave



Techno-Contact inc.

9251 Thimens, Pierrefonds, Qc, H8Y 0A1

FROM THE DISTRIBUTOR
www.technocontact.ca

MANIIFACTURER'S EXPERIENCE...

## DIGITAL INDICATIONS

# Languages Available:

English French

## **Units Indications Available:**

Temperature : Celsius Fahrenheit

Pressure: kPA PSI

Volume: Liter US Gallon UK Gallon

## **Data Generator:**

AC voltage (VAC) Frequency (Hz) Real power (kW) Reactive power (kVAr) Current (A) Power factor Apparent power (kVA) kW hour exported

# **Engine Data:**

Engine revolution Oil temperature Genset operating mode Crank attempt counter
Hours of operation Oil pressure Service maintenance interval Successful start counter
Fuel temperature Coolant temperature Battery voltage Exhaust temperature

# Available Only With EMRP3.3 Version:

Fuel level Exhaust temperature Intake manifold air temperature Atmospheric pressure Fuel pressure Turbo pressure Generator bearing temperature Cylinder temperature Instantaneous fuel consumption Total fuel consumption Generator winding temperature Battery voltage

## WARNING/SHUTDOWNS INDICATION

Overcrank Overspeed High fuel pressure Low oil pressure High battery voltage Fuel filter restriction Control switch not in auto Low coolant temperature High coolant temperature Low battery voltage High intake manifold air temperature Emergency stop activated High oil temperature Low fuel pressure High fuel temperature Low fuel level

## **EVENTS TABLES**

## Display the 20 latest events, warnings or faults for the following gensets equipments:

EMCP3 controller 2 X Thermocouples module Automatic voltage regulator (CDVR)

Engine control module (ECM) 2 X Inputs/outputs module RTD module

### **TRENDING**

View last 30 days' electrical and mechanical data trends. Use PAN and ZOOM functions analyse recent alarms or event.

#### CONTROLS

Auto/Start/Stop

Time/date modification and synchronization with the EMCP3 controller

12 warning/faults/customizable events.

# INPUT/OUTPUT CUSTOMIZING

Custom labels can be assigned to Inputs 3 to 8 and Outputs 2 to 8 of the EMCP3® controller.

# **CHARACTERISTICS**

Power Supply: Voltage: 24 VDC, Limits: 19 to 28,8 VCC, Voltage break: = 5 ms

Screen: LCD 5,7" Colour TFT touch screen 65 536 colours Temperature: Operation: 0...50 ℃, Storage: -20...+60 ℃

**Degree of Protection :** Front panel IP 65 conforming IEC 60529, Nema 4X, Rear panel IP 20 conforming IEC 60529 **Communication Protocols :** Modbus TCP/IP Master/slave // MODBUS RTU (Thru Ethernet-RS485 Converter)

<sup>\*</sup> EMCP3®, Cat® and Caterpillar® are registered trademarks of Caterpillar Inc. EMRP3 is not associated with or sponsored by Caterpillar® or its Perkins subsidiary.

FTA-EMRP3-04



**Techno-Contact inc.**9251 Thimens,
Pierrefonds, Qc. H8Y 0A1
T: 514-745-3331 F514-745-8924

<sup>&</sup>lt;sup>1</sup> When an internet connection is available.

<sup>\*</sup> All of the above data are displayed when available in the EMCP3 controller, depending on the model of the generator installed, options and optional modules installed on the generator (refer to the generator manufacturer for details).

<sup>\*</sup> EMRP3.X2330TT and EMRP3.X2330TR models require a converter (Ethernet – RS-485) to communicate with the EMCP3® and an Ethernet switch for the « Web Gate» functionality.