

## Description

The Mertech Diesel Fire Pump Control Panels have been designed to offer state-of-the-art functions for the management of diesel engine pumps on fire fighting applications according to EN 12845. Built with dedicated components and extremely compact. The FP-DP panel includes the FFL700DP digital controller with a modern designed front panel with a LCD screen providing a clear and intuitive user interface. The panel includes dual battery chargers with charging ammeters.

## Features

- Crank cycle according to EN 12845
- Batteries monitoring
- Advanced programmable functions for fire fighting systems
- AC voltage monitoring
- Possibility of setup via NFC technology and APP
- Built-in RS485 communication
- PLC logic integrated

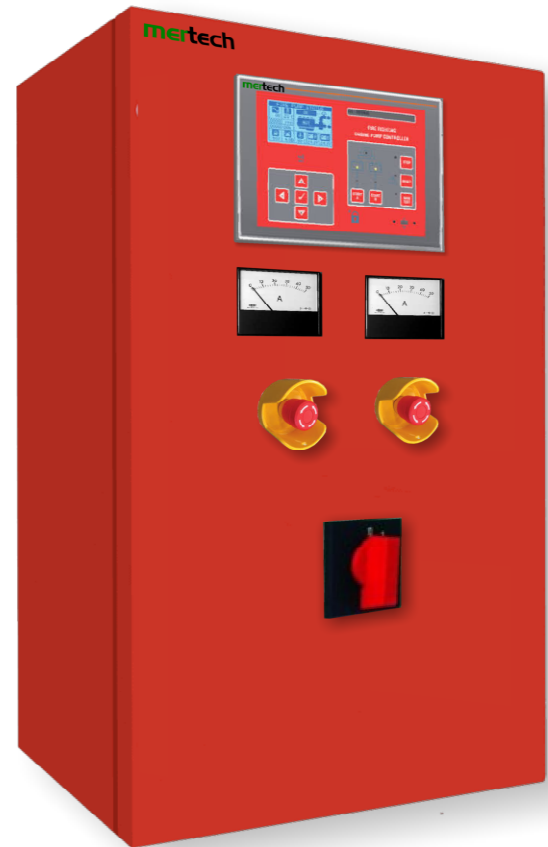
## Features

The controller integrates all the functions required by the EN 12845 standard regarding the diesel engine fire pump management and help the user to monitor and maintain the performance of the entire fire fighting system.

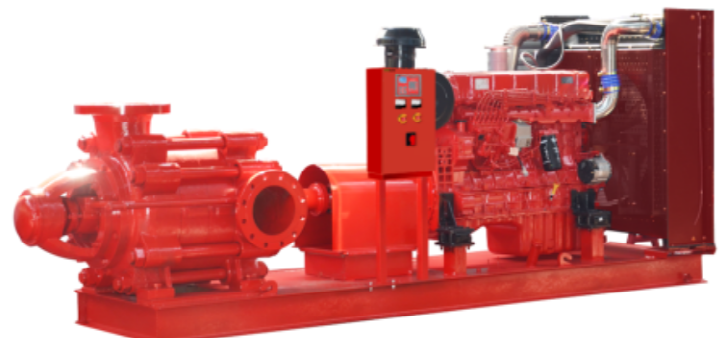
The backlit graphic LCD display 128x80 pixel ensures high visibility in low light conditions.

Inputs and outputs are programmable and the number can be increased with the I/O expansion modules, moreover they can be managed in the PLC logic integrated.

This all means an integrated solution less programming to set up the firefighting system. Within the main page, it is possible to see all the information about the engine fire pump.



Functions for the maintenance and the test of the firefighting system are available directly on the display with the possibility to receive remotely this information by the digital outputs or the Modbus communication through the built-in RS485. The controller monitors constantly the temperature inside the pump room using the integrated or an external temperature sensor and the status of the auxiliary voltage with the single-phase AC voltage measurement input



## Key Points

- Diesel engine fire pump controller according to EN12845.
- Graphic LCD display 128x80 pixels, back lighted, 4 levels of gray.
- 10 Keys for functions and setup.
- 8 LEDs to display operating modes and status.
- Texts for measurements, settings and messages in 5 languages.
- Expansion bus with 2 slots for expansion modules EXP... T series (only for FFL800DP)
- Communication interface RS485, Ethernet, GSM/GPRS;
- Additional digital I/O, static or relay outputs;
- PT100 temperature, current, voltage analog I/O.
- Advanced programmable I/O functions.
- Integrated PLC logic with thresholds, counters, alarms, status.
- Fully user-definable alarms.
- 12/24 VDC universal battery power supply.
- Front optical programming interface, galvanically isolated, high speed, IP65,
- USB and Wi-Fi compatible.
- 3 analog inputs for resistive sensors programmable usable for the followi functions:
  - oil pressure;
  - coolant temperature;
  - fuel level;
- 10 digital inputs programmable.
  - 1 input to monitor the starter pinion.
  - 11 digital outputs:
    - 6 changeover relay outputs;
    - 4 NO really outputs;
    - 1 static output.
  - Engine speed reading W and pick-up input.
  - Input for monitor the D + voltage from alternator battery charger.
- Ambient temperature sensor:
  - 1 built-in NTC;
  - 1 NTC remote.
- VAC single-phase voltage measuring input.
- Isolated RS485 communication interface built in.
- Wireless setup with NFC technology.
- Calendar-clock (RTC) with backup reserve Energy.
- PCB tropicalized.
- Degree of protection IP65 on front.
- Storage of last 64 events.
- Support for remoting the alarms and for remote annunciator.

### ■ Diesel engine fire pump controller display

