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# CFMDX / CFNDX CONTROLLERS FOR DIESEL DRIVEN FIRE PUMPS

NFPA20 STD. FM APPROVED UL LISTED





# Main technical characteristics

Built for control and starting of **diesel engines driving fire pumps**, has the capability of automatic, manual start and stop.

Automatic operation is initiated by a loss of system pressure, detected through a pressure transducer and a user selectable start threshold. Manual operation is initiated by the battery cranking pushbuttons.

The Models CFMDX and CFNDX diesel engine fire pump controller has a general arrangement in compliance with **UL 218 and/or FM 1321/1323 requirements**.



Controller F200FD



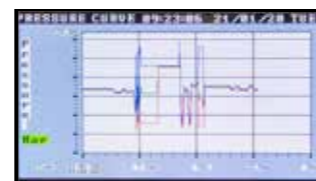
Homepage



Main menu



Analog input page



Pressure recording page



Pressure recorder transducer and run test solenoid valve

- > Enclosure mechanical protection IP55
- > Programmable weekly test shutdown
- > Pressure transducer
- > Controller rated temperature 50°C
- > Pump curve recording
- > Run test solenoid valve
- > Enclosure dim.: 600x600x250mm
- > Dry contacts for remote indication
- > Programmable Auto Off
- > HAND - 0 - AUTO selector switch
- > N.2 manual crank pushbuttons
- > Event recording
- > Audible alarm
- > Stop pushbutton

The Models CFMDX / CFNDX controller enclosure cabinet houses two independent Model BCEI1210 (12VDC) or BCEI2410 (24VDC) battery chargers manufactured by Electraimpianti srl.

These chargers are rated at 10 amps for battery applications. Each charger has its own control circuitry, and operates from an AC supply voltage rated at 230VAC at 50Hz or 60Hz.



N.2 Battery chargers 10A 12Vdc or 24Vdc



I/O board

## Technical data

| Communication |                  | Starting Voltage | Enclosure Size | Power Supply  | Frequency |
|---------------|------------------|------------------|----------------|---------------|-----------|
| 1             | Modbus RTU RS485 | 12VDC            | 600x600x250 mm | 200 - 240 VAC | 50/60 Hz  |
| 2             | Modbus TCP IP    | 12VDC            | 600x600x250 mm | 110 - 127 VAC | 50/60 Hz  |
| 3             | WebServer        | 24VDC            | 600x600x250 mm | 200 - 240 VAC | 50/60 Hz  |
|               |                  | 24VDC            | 600x600x250 mm | 110 - 127 VAC | 50/60 Hz  |

| Battery types                       |                      |
|-------------------------------------|----------------------|
| Lead-acid batteries                 | Provided as standard |
| Absorbent glass mat (AGM) batteries | Option               |

| Ambient and thermal rating                                 |        |
|--|--------|
| Boards Tropicalization                                     | Option |
| Protection rating: IP55                                    | Option |
| Protection rating: IP65 or IP66                            | Option |
| Forced ventilation circuit 230VAC (IP55)                   | Option |
| Ambient temperature rating 5÷50°C / 41÷122°F               | Option |
| Ambient temperature rating 5÷55°C / 41÷131°F               | Option |
| Anti-condensation heater with thermostat and/or humidistat | Option |
| Engine block heater circuit (230VAC)                       | Option |
| Heater engine connection (supply and contact)              | Option |

| Mechanical accessories  |        |
|---|--------|
| Mounting stand  | Option |
| I/O expansion module - 10 input                                       | Option |
| I/O expansion module - 5 output                                       | Option |
| Customized language   | Option |
| Modbus RTU RS485 protocol   | Option |
| Modbus TCP-IP Ethernet protocol                                       | Option |
| Web Server Ethernet protocol  | Option |
| Wi-Fi Direct and Access Point protocol                                | Option |
| Stainless Steel AISI 316 Manifold for sea water                       | Option |
| GSM module for remote supervision (internet supervision)              | Option |
| Digital Battery Tester Instrument with WI-FI Printer (supplied loose) | Option |

| System configuration   |                      |
|--|----------------------|
| Pressure actuated controller (pressure transducer and run test solenoid valve)         | Provided as standard |
| Foam pump application (w/o pressure transducer and run test solenoid valve)            | Option               |
| Non pressure actuated controller (w/o pressure transducer and run test solenoid valve) | Option               |