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M170 - Rev 01 - EN

CNFDX CONTROLLERS FOR DIESEL DRIVEN FIRE PUMPS

NFPA20 STD.





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 Model CNFDX diesel engine fire pump controller has a general arrangement in compliance with **NFPA20 requirements**.



Controller F200FD



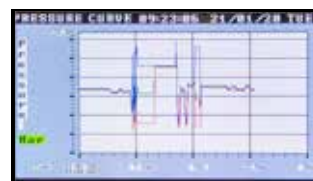
Homepage



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 Model CFMDX 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		Ambient and thermal rating	
Lead-acid batteries	Provided as standard	Boards Tropicalization	Option
Absorbent glass mat (AGM) batteries	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		System configuration	
Mounting stand	Option	Pressure actuated controller (pressure transducer and run test solenoid valve)	Provided as standard
I/O expansion module – 10 input	Option	Foam pump application (w/o pressure transducer and run test solenoid valve)	Option
I/O expansion module – 5 output	Option	Non pressure actuated controller (w/o pressure transducer and run test solenoid valve)	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		