



Micro Processor Based Fire Pump Controllers





AN INTRODUCTION TO NAFFCO

NAFFCO was founded in Dubai, UAE to become the world's leading producer and supplier of life safety solutions. By recognizing the importance and convenience of having easy access to multiple safety services, we became specialized by offering complete solutions under one roof for all types of high quality firefighting equipment, fire protection systems, fire alarms, addressable emergency systems, security systems, custom-made vehicles such as fire trucks, ambulances, mobile hospitals and airport rescue firefighting vehicles (ARFF).

With the most talented and dedicated employees from around the world, NAFFCO has over 450 passionate engineers and over 3 million square feet of manufacturing facilities. We are currently exporting to over 100 countries worldwide.

Our products have been consistently certified by UL, FM, BSI, LPCB and Global Mark according to the latest International Quality Standard for their strict adherence to ISO 9001 quality management system and certified for ISO 14001 environmental management systems and BS OHSAS 18001 for occupational safety by UL DQS.

Our success is driven by our passion to protect; our vision is to become the world's number one provider of innovative solutions in protecting life, environment and property.





MANUFACTURING

NAFFCO manufacturing department has the latest technology, state-of-the-art machines (CNC machines, hydraulic shearing and bending machines, all types of welding machines - MIG, TIG, ARC etc.), and a complete machine shop that enable us to meet the needs of any production requirement.

NAFFCO has the ability to introduce the latest technological systems & equipment in the field. Our engineers and technicians are well qualified & experienced in producing quality products.

The department is equipped with full-fledged testing facilities to test the equipment as per NFPA, EN, ICAO, KKK and Civil Defense standards & requirements, and to meet the customers specifications.

Considering the above facilities and excellence in engineering capabilities, NAFFCO can meet any challenges to produce bulk quantities of fire safety materials.



UL / FM CERTIFIED DIESEL ENGINE MICROPROCESSOR BASED CONTROLLER

MODEL NFY-DM1

NAFFCO Fire Diesel Engine Controller are listed by Underwriters Laboratories (UL file number EX15064), in accordance with UL218 (Standard for Fire Pump Controller), UL508a (Standard for Industrial Control Panel), NFPA20 (National Fire Protection Association Pamphlet 20 – Standard for Centrifugal Fire Pumps), NFPA70 (National Electric Code) and NEMA.

Also approved by FM approvals (Factory Mutual), in accordance with FM standard 1321 / 1323 (Standard for Fire Pump Controller).

Power ratings suitable for 12/24 volts DC operating voltage, 110 / 220 volts AC input voltage, 50/60 Hz. These controllers are compatible with most types of fire fighting diesel engines.

Only high quality UL listed or UL recognized components are used in these panels to guarantee the best possible reliability. Also high quality UL listed enclosures are used. This controller is completely wired, assembled and tested at the factory before shipment, and ready for immediate installation.



RATINGS

Line Voltage (VAC)	DC Voltage (VDC)
220/110	12/24

DIESEL ENGINE CONTROLLER FEATURES

STANDARD FEATURES

- System error alarm / indicator.
- AC power healthy indicator.
- DC power healthy indicator / free contact.
- Speed switch error or failed while running alarm / indicator.
- Automatic shutdown enabled/disabled indicator.
- Low discharge pressure alarm / indicator / free contact (programmable).
- Deluge valve on alarm / indicator / free contact(programmable).
- Remote start on alarm / indicator / free contact(programmable).
- 10 additional programmable indicators.
- 11 additional programmable digital inputs.
- 8 additional programmable output relays (free contacts).
- Common alarm free contact.
- Electrical alarm bell.
- Push button for alarm silence (only for additional alarms).
- Pressure transducer with analog voltage output.
- Data logging system for pressure and events.
- USB port for saving recorded pressure and events on USB memory, and can be viewed with MS word and Excel.
- Electrically actuated built in discharge solenoid valve.
- 220 / 110 VAC main line system power.
- 12 / 24 VDC system control voltage.
- Automatic / Manual / OFF mode (selectable).
- Two 12 / 24 VDC, 10 Amps smart automatic microprocessor battery chargers.
- Protection circuit breakers before and after battery chargers.
- 20x4 LCD display showing all system parameters and variables.
- User friendly software enable user to program alliterated parameters like timers, pressure, inputs, outputs ... etc.
- Shows battery 1 and 2 voltages.
- Shows battery 1 and 2 charging currents.
- Shows real value of discharge pressure.
- Shows engine running hours.
- Showing ambient temperature.
- Automatic cranking from two different batteries.
- Two push buttons for manual cranking from two different batteries.
- Manual stop push button.
- Programmable automatic weekly test, which can be programmed to start at any desired day, hour and minute in a week.
- Manual test push button.
- Starting delay timer (programmable) for sequence multiple pumps starting.
- Automatic or manual shutdown after automatic start (selectable).
- Compatible with fuel solenoid engines and stopped solenoid engines.
- Engine run indicator / free contact.

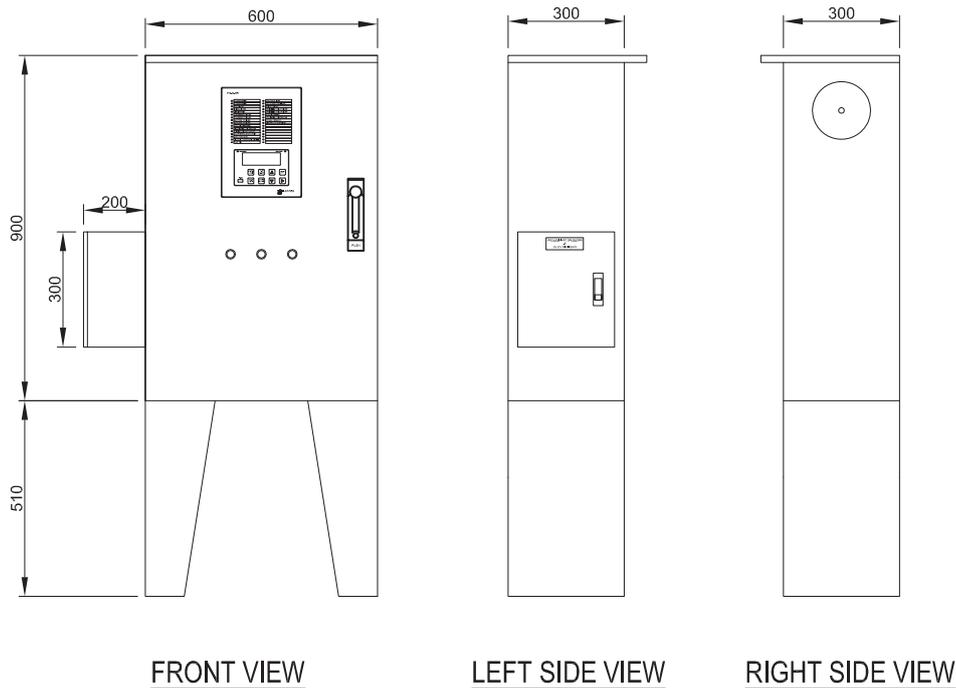
- Test running indicator / free contact.
- Automatic mode indicator / free contact.
- Manual mode indicator.
- Battery Charger 1 error indicator.
- Battery Charger 2 error indicator.
- Battery 1 failure alarm / indicator.
- Battery 2 failure alarm / indicator.
- Low oil pressure alarm / indicator.
- High water temperature alarm / indicator.
- Over speed shut down alarm / indicator.
- Engine failed to start alarm / indicator.
- Cranking coil 1 failure alarm / indicator.
- Cranking coil 2 failure alarm / indicator.
- UL listed NEMA 2 enclosure.

ENCLOSURE OPTIONS:

- NEMA 3
- NEMA 4
- NEMA 12



Enclosure for Diesel Engine Controller Model NFY-DM1



TECHNICAL DATA :

S.NO.	DESCRIPTION		DATA
1.	SIZE		900(HEIGHT)X600(WIDTH)X300(DEPTH)
2.	MATERIAL		1.5 mm THICK. GI
3.	PAINT FINISH		POWDER COATED - RED
4.	DOOR LOCK		HANDLE TYPE LOCK WITH CENTRAL CAM
5.	HINGES		BUSH PIN HINGES
6.	DOOR OPENING	FRONT	RIGHT HAND SIDE TO LEFT HAND SIDE
		BACK	Non
7.	DOOR OPENING ANGLE		120°
8.	ALL DIMENSIONS ARE IN MM		
9.	PROTECTION RATING		NEMA 2



FIRE PROTECTION BY



NAFFCO
WORLD LEADERS IN FIRE PROTECTION SYSTEMS
NAFFCO FZ CO.
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WEBSITE : www.naffco.com E-MAIL : naffco@emirates.net.ae




Client :

Title / Name :

Diesel Fire Pump Controller

Desinged By : Eng. Yousef Abu Hadhoud

Approved By : Eng. Emad Kassab

Drawing No :

Date : 19/02/2019

Reference No : -NAFF-H01-EXP-12571 (0)

Panel Model No : NFY-DM1

Version: 1.0

Panel Serial No :

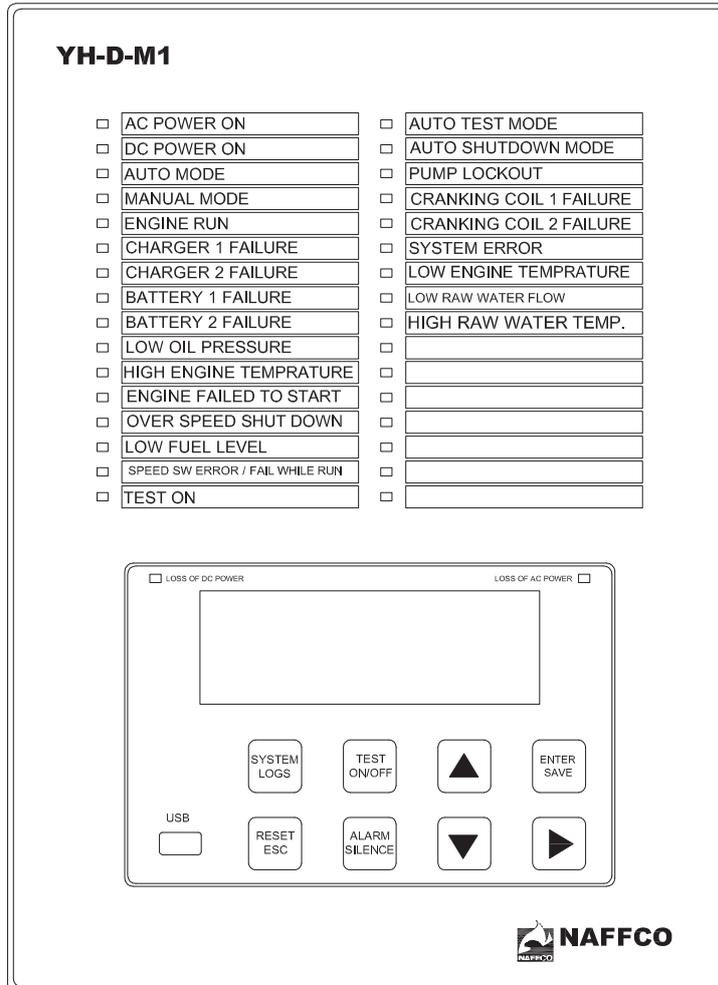
Page Description :

Enclosure

Sheet 1 of 4

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Model: YH-D-M1

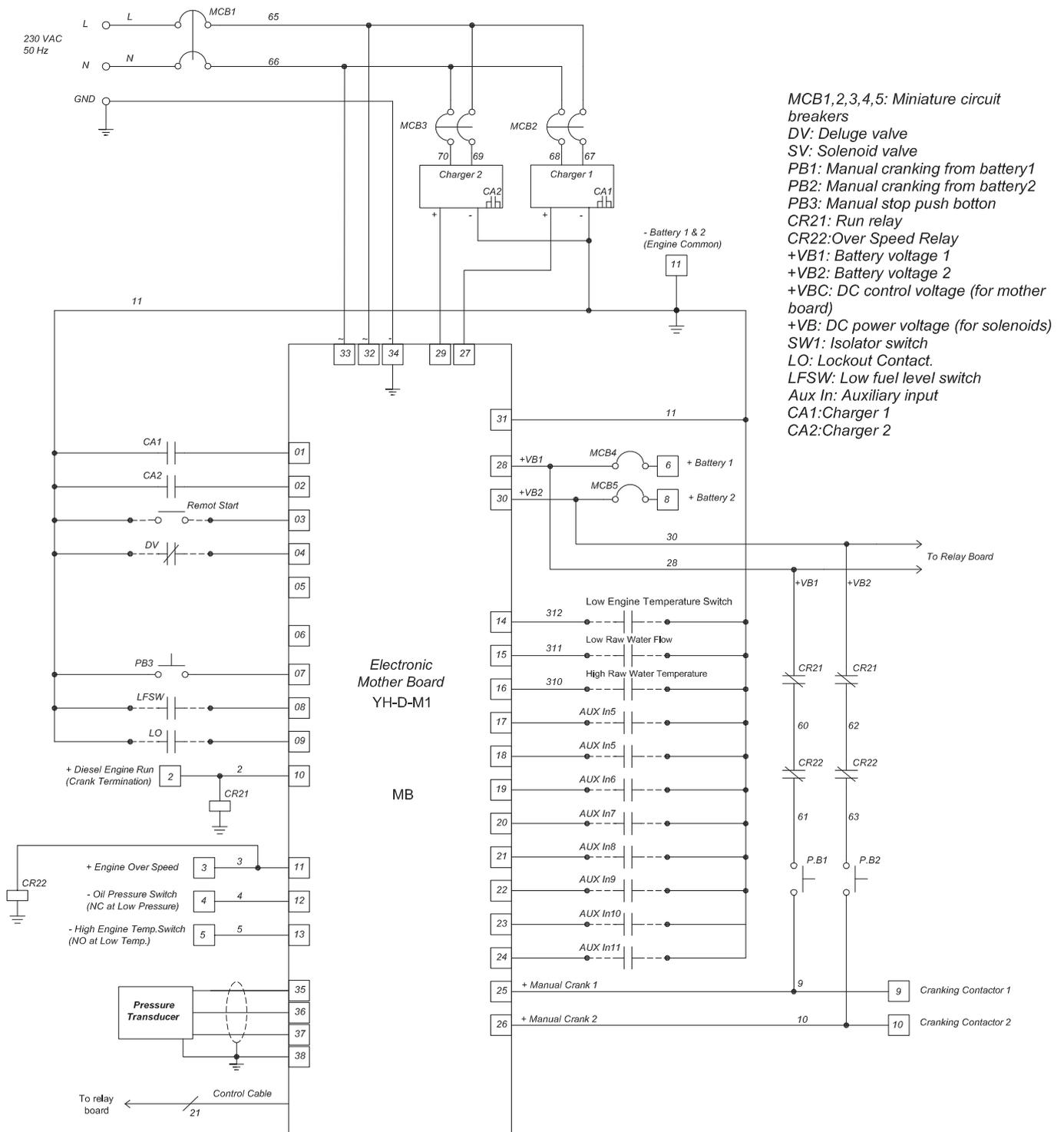


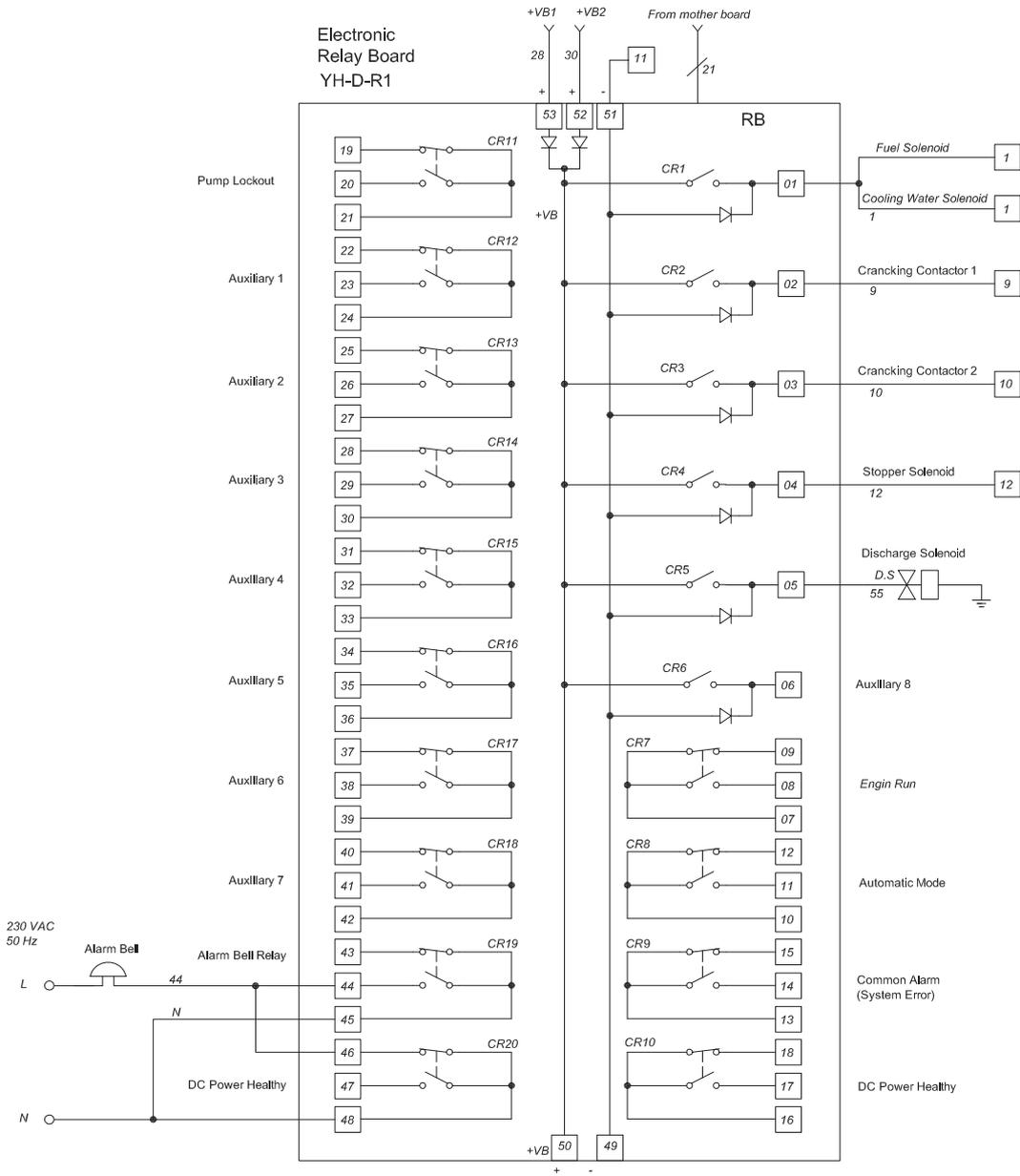
Diesel Pump Controller

Wiring Schematic

Model: NFY-DM1

Version: 1.0







Serving Over 100 Countries Worldwide

NAFFCO

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In line with NAFFCO policy for continuous product development,
NAFFCO has the right to change specifications without prior notice.

CAT.NO.NF/MPBFPC/03/19

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