

## Foam Pump Controllers

The FDF Series of Foam Pump Controllers are designed for use with foam concentrate injection, foam transfer and water mist systems for special hazard, aircraft hangar, petrochemical and flammable liquid applications.

All available models meet specific requirement criteria and meet or exceed all North American and International standards including UL 218.

FDF30 - Across the Line



FDF100 - Diesel



FDF20 - Limited Service



# FDF

### Microprocessor Based

- Stores last 2048 messages
- LCD display - Pressure, Current, Voltage and more...

### Standard Features

- Low Foam Concentrate Indication
- Voltage & Current Display
- Alarm & Status Indication
- Common Alarm Relay
- Low Pressure Warning Alarm
- Elapsed Time Meter
- Number of Operations Counter
- Weekly Test Timer
- Sequential Start Timer
- Interlock Circuit
- Remote Start

### Printer/Recorder

- Prints Events with Time/Date Stamp
- Standard Thermal Paper
- Prints Status Report

### Languages


- English, Spanish, French

### Enclosures

- NEMA 2 Enclosure - Standard
- NEMA 3R, 4, 4X, 12 (Specials upon request)

### Options

- Proof Pressure Switch
- Proof Pressure Switch Function
- Proof Pressure Switch Function with Pressure Switch




**FD20**  
Limited Service  
Controller



**FD30**  
Across-the-Line




**FD40**  
Part Winding




**FD50**  
Primary Resistor




**FD60**  
Autotransformer




**FD70**  
Wye-Delta  
Open Transition




**FD80**  
Wye-Delta  
Closed Transition




**FD90**  
Soft Start



**FDC**  
Compact

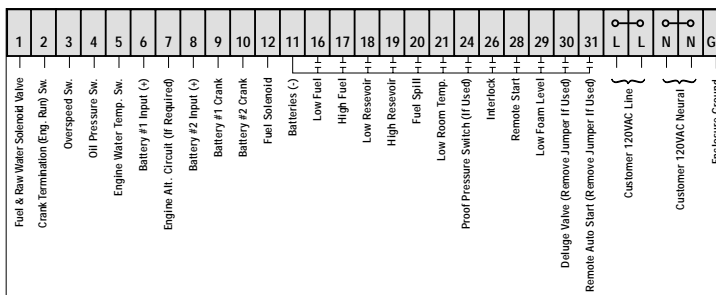


**FDF**  
Foam Pump  
Controller

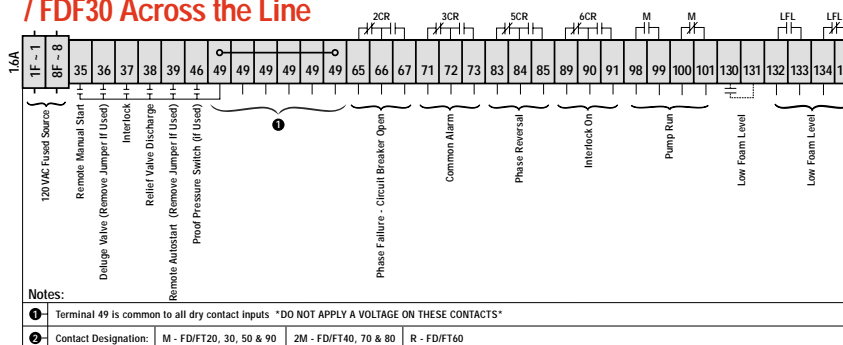


**FDR**  
Residential

**Main Terminal Block: TB1 FDF100 Deisel**



**Main Terminal Block: TB1 FDF20 Limited Service / FDF30 Across the Line**



**Ordering Guidelines:**

<b>FDF 100 -</b> <b>- N -</b> (1)    (2)    (3)    (4)    (5)	<b>FDF -</b> <b>- LMR -</b> (1)    (2)    (3A)    (3B)    (4)    (5)
<p><b>①—Battery Voltage</b></p> 12L <input type="checkbox"/> 12VDC Lead Acid    12C <input type="checkbox"/> 12VDC NI-CAD* 24L <input type="checkbox"/> 24VDC Lead Acid    24C <input type="checkbox"/> 24VDC NI-CAD*	<p><b>①—Starting Type</b></p> 20 <input type="checkbox"/> Limited Service 30 <input type="checkbox"/> Across the Line
<p><b>②—Negative Ground Polarity</b></p>	<p><b>④—Language</b></p> <input type="checkbox"/> L1 - English <input type="checkbox"/> L2 - French <input type="checkbox"/> L5 - Spanish
<p><b>③—Supply Voltage</b></p> A <input type="checkbox"/> (110-120V 50/60Hz)    D <input type="checkbox"/> (575-600V 60Hz) B <input type="checkbox"/> (220-240V 50/60Hz)    E <input type="checkbox"/> (380-415V 50Hz) C <input type="checkbox"/> (460-480V 60Hz)	<p><b>②—Horsepower ***</b></p> <input type="checkbox"/> 5 <input type="checkbox"/> 15 <input type="checkbox"/> 40 <input type="checkbox"/> 100 <input type="checkbox"/> 250 <input type="checkbox"/> 7.5 <input type="checkbox"/> 20 <input type="checkbox"/> 50 <input type="checkbox"/> 125 <input type="checkbox"/> 300 <input type="checkbox"/> 10 <input type="checkbox"/> 25 <input type="checkbox"/> 60 <input type="checkbox"/> 150 <input type="checkbox"/> 350 <input type="checkbox"/> 30 <input type="checkbox"/> 75 <input type="checkbox"/> 200 <input type="checkbox"/> 400
<p><b>④—Language</b></p> <input type="checkbox"/> L1 - English <input type="checkbox"/> L2 - French <input type="checkbox"/> L5 - Spanish	<p><b>③A—Voltage</b></p> A <input type="checkbox"/> 200-208V    D <input type="checkbox"/> 440-480V B <input type="checkbox"/> 220-240V    E <input type="checkbox"/> 550-600V C <input type="checkbox"/> 380-415V @ 50Hz    F <input type="checkbox"/> 416V @ 60Hz
<p><b>⑤—Options</b></p> A <input type="checkbox"/> Built-in Alarm System B <input type="checkbox"/> Alarm Bell C1 <input type="checkbox"/> Extra Contacts - "Pump Run" (one N.O. std.) C2 <input type="checkbox"/> Extra Contacts - "AC Power Failure" (one set std.) C3 <input type="checkbox"/> Extra Contacts - "Phase Reversal" (one set std.) C4 <input type="checkbox"/> Audible & Visible Alarm - Low Reservoir C5 <input type="checkbox"/> Audible & Visible Alarm - High Reservoir *C6 <input type="checkbox"/> Audible & Visible Alarm - Low Fuel *C7 <input type="checkbox"/> Audible & Visible Alarm - High Fuel *C8 <input type="checkbox"/> Audible & Visible Alarm - Fuel Spill E1 <input type="checkbox"/> NEMA 3R - Raintight Enclosure E2 <input type="checkbox"/> NEMA 4 - Watertight Enclosure E3 <input type="checkbox"/> NEMA 12 - Industrial Dust-tight Enclosure E5 <input type="checkbox"/> NEMA 4X - Stainless Steel Enclosure	<p><b>③B—Microprocessor Control</b></p> H <input type="checkbox"/> High Withstand Rating - (Not available on FDF20 Limited Service) I <input type="checkbox"/> Intermediate Withstand Rating P9 <input type="checkbox"/> Proof Pressure Switch R1 <input type="checkbox"/> Space Heater - (120V) R2 <input type="checkbox"/> Space Heater - c/w Thermostat R3 <input type="checkbox"/> Space Heater - c/w Humidistat R4 <input type="checkbox"/> Low Pump Room Temperature Switch and Pilot Light *S1 <input type="checkbox"/> Fuel Level Switch, 16 inch *S2 <input type="checkbox"/> Fuel Level Switch, 45 inch LFL <input type="checkbox"/> Low Foam Level PPS1 <input type="checkbox"/> Proof Pressure Switch Function PPS2 <input type="checkbox"/> Proof Pressure Switch Function c/w Pressure Switch

All units except FDR and FDF series are available with an automatic transfer switch option.

\* Note: Options C6, C7, C8, S1, S2 apply to the FDF100 Diesel only.

\*\*\* FDF20 Limited Service Controllers are available up to 30HP only.

For Technical Data & Specifications, refer to FD20 Limited Service, FD30 Across the Line and FD100 Diesel Sales Literature.