

Project:	
Customer:	
Engineer:	
Pump Manufacturer	

Technical Data Submittal Document

Model GFY

Wye-delta Open Electric Fire Pump Controller



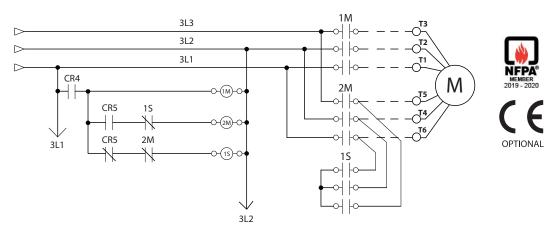
Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections





From normal incoming power through **Disconnecting Means** (IS/CB)



Standard &	Built to NFPA 20 (latest edition)		
Certification	□ CE Mark: Various EN, IEC & CEE directives and standards		
	Protection Rating IP55		
Enclosure	Accessories • Bottom entry gland plate	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish	
Disconnecting Means	Isolating switch and circuit breaker: Isolating switch rated not less than 115% of motor full load current Circuit breaker continuous rating not less than 115% of motor full load current Overcurrent sensing non-thermal type, magnetic only Instantaneous trip setting of not more than 20 times the motor full load current Individual operating handles		
Emergency Start Handle	Flange mounted Pull and latch activation Integrated limit switch Across the line start (direct on line)		
Locked Rotor	Operate shunt trip to open circuit breaker Factory set at 600% of motor full load current Trip between 8 and 20 seconds		
Electrical Readings	Voltage phase to phase (normal power) Amperage of each phase when motor is running		
Pressure Readings	Continuous system pressure display Cut-in and Cut-out pressure settings		



Pressure and Event recorder	 Pressure readings with date stamp Event recording with date stamp Under regular maintained operation, events can be stored in memory for up to 5 years. Data viewable on operator interface display screen 		
Pressure Sensing	 Pressure transducer for fresh water application Pressure sensing line connection 1/2" Female NPT Rated for 0-500PSI working pressure (calibrated at 0-300psi) Externally mounted with protective cover 		
Visual Indications & Alarms	 Motor run Pump room alarm Motor trouble Phase loss Fail to start Low discharge pressure Pump on demand/Automatic start Emergency start Remote manual start Overcurrent Undercurrent Undervoltage 		 Remote automatic start Remote manual start Overcurrent Undercurrent
Remote Alarm Contacts	SPDT-8A-250V.AC Power available Phase reversal Motor run Common pump room alarm Overvoltage Undervoltage Phase unbalance Common motor trouble Overcurrent Undercurrent Fail to start		
ViZiTouch Light Operator Interface	Embedded microcomputer with software PLC logic 4.2" color touch screen (HMI technology) Upgradable software Expandable storage Multi-language		
	Automatic Start	Start on pressure drop Remote start signal from	automatic device
Operation	Manual Start	Start pushbutton Run test pushbutton Deluge valve start Remote start from manual device	
	Stopping	Manual with Stop pushbutton Automatic after expiration of minimum run timer **	
	Timers	Field Adjustable & Visual Countdown	Minimum run timer **(off delay) Sequential start timer (on delay) Manual test timer
	Actuation	Visual Indication	Pressure Non-pressure
	Mode	visuai iiidicatiofi	Automatic Non-automatic

^{**} Can only be used if approved by the AHJ



A4	Flow switch provision	
A9	Low zone pump control function	
A10	Middle zone pump control function	
A11	High zone pump control function	
A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve	
A16	Lockout/interlock circuit from equipment installed inside the pump room	
☐ B11B	Built in alarm panel same as B11 but 220- 240VAC supervisory power	
☐ B19A	High motor temperature c/w thermoster relay and alarm contacts (DPDT)	
☐ B19B	High motor temperature c/w PT100 relay and alarm contacts (DPDT)	
B21	Ground fault alarm detection c/w visual indication and alarm contact (DPDT)	
C1	Extra motor run alarm contact (DPDT)	
C4	Periodic test alarm contact (DPDT)	
C6	Low discharge pressure alarm contact (DPDT)	<u> </u>
C7	Low pump room temperature alarm contact (DPDT)	
C10	Low water reservoir level alarm contact (DPDT)	
C11	High electric motor temperature alarm contact (DPDT)	
C12	High electric motor vibration c/w visual indication and alarm contact (DPDT)	
C14	Pump on demand / automatic start alarm contact (DPDT)	
C15	Pump fail to start alarm contact (DPDT)	
C16	Control voltage healthy alarm contact (DPDT)	L
C17	Flow meter valve loop open c/w visual indication and alarm contact (DPDT)	
C18	High water reservoir level c/w visual indication and alarm contact (DPDT)	

C20	Manual start alarm contact (DPDT)
C21	Deluge valve start alarm contact (DPDT)
C22	Remote automatic start alarm contact (DPDT)
C23	Remote manual start alarm contact (DPDT)
C24	High pump room temperature alarm contact (DPDT)
Сх	Additional visual and alarm contact (Specify function) (DPDT)
☐ D1	Low suction pressure transducer for fresh water rated at 0-300PSI with visual indication and alarm contact
☐ D1A	Low suction pressure transducer for sea water rated at 0-300PSI with visual indication and alarm contact
D5E	Addition of run test solenoid valve for fresh water rated for 0-500psi
☐ D5F	Addition of run test solenoid valve for sea water rated for 0-500psi
☐ D14	Anti-condensation heater & thermostat
☐ D14A	Anti-condensation heater & humidistat
D14B	Anti-condensation heater & thermostat & humidistat
☐ D15	Tropicalization
☐ D18	CE Mark with factory certificate
☐ D27	Motor heater connection (external single phase power source and heater on/off contact)
D27A	Motor heater connection (internal single phase power source and heater on/off contact)
☐ D28	Customized drawing set
☐ D34A	Field programmable I/O board - 8 Input / 5 output
☐ D37	Window kit for operator interface

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

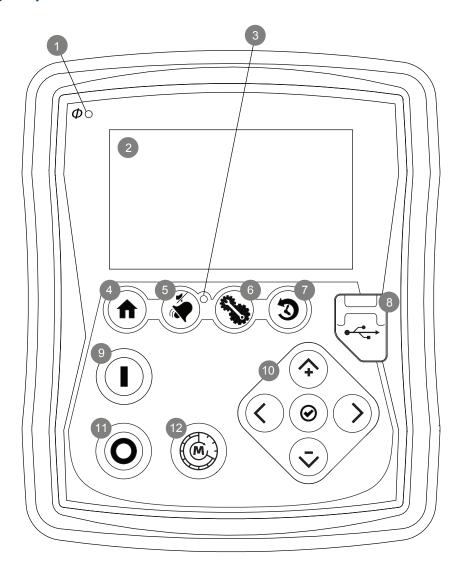


1 (Other language and English (bilingual)
2 F	French
3 5	Spanish
4	German
5 It	talian
6 F	Polish
7 F	Romanian
8 F	Hungarian
9 8	Slovak
0 0	Croatian
1 C	Czech
2 F	Portuguese
3 [Dutch
4 F	Russian
5 T	Turkish
6 8	Swedish
7 E	Bulgarian
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0 8	Slovenian
1 [Danish
2 0	Greek
3 A	Arabic
4 F	Hebrew
5 0	Chinese
	2 F 3 S 4 C 5 III 6 F 7 F 8 F 9 S 7 F 6 S 7 F



ViZiTouch Light Operator Interface





- 1 Power on LED
- 2 Color touch screen
- 3 Alarm LED
- 4 HOME page button
- 5 ALARM page button
- 6 CONFIGURATION page button
- 7 HISTORY page button

- 8 USB port
- 9 START button
- 10- Contextual navigation pad
- 11 STOP button
- 12 RUN TEST button

