

Project:\_\_\_\_\_

Customer:\_\_\_\_\_

Engineer:\_\_\_\_\_

Pump Manufacturer:\_\_\_\_\_

# **Technical Data Submittal Document**

Model GPW Full Service Reduced Voltage Wye-delta Closed Electric Fire Pump Controller



Field Connections

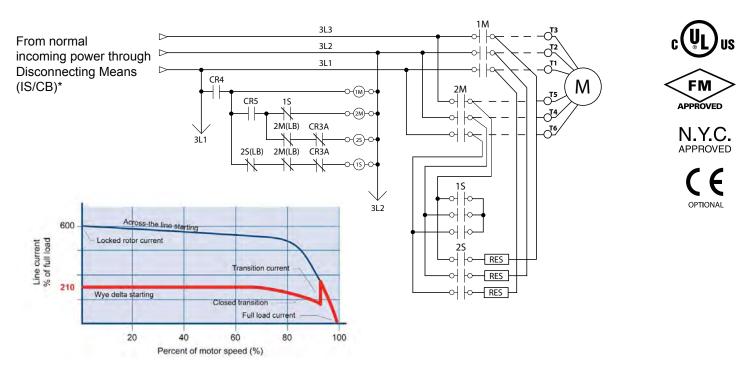
Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.





### **Technical Data**

Model GPW Electric Fire Pump Controller



Starting Method: Reduced Voltage Wye-delta closed Typical Voltage Applied at Start: 100% Inrush Current: 33% of normal load current Starting Torque: 33% Motor Type: Wye-delta No. of Contactors: 2 at 58%, 1 at 33% of motor FLC Min. ampacity of motor conductors: 6 at 125% x 58% of FLC

	Built to NFPA 20 (latest edition	n)				
Standard,	Underwriters Laboratory (UL)	• UL218 - Fire Pur • CSA C22.2 No. 1	Pump Controllers . 14 Industrial Control Equipment			
Listings,	FM Global	Class 1321/1323				
Approvals and Certifications	New York City	Accepted for use in	n the City of New York by th	e Department of Buildings		
	Optional					
	CE Mark	Various EN, IEC &	rds			
Enclosure	□ NEMA 3 □ NEMA 3R	□ NEMA 4X-304 sst   □ NEMA 4X-304 sst   □ NEMA 4X-316 sst   □ NEMA 4X-316 sst	orushed finish painted	□ IP54 □ IP55 □ IP65 □ IP66		
	Accessories <ul> <li>Bottom entry gland plate</li> <li>Lifting Lugs</li> <li>Keylock handle</li> </ul>		Paint Specifications <ul> <li>Red RAL3002</li> <li>Powder coating</li> <li>Glossy textured finish</li> </ul>			

\*Please see Disconnecting Means details on page 3.



200V to 208V 220V to 240V 380V to 416V 440V to 480V 575V to 600V Shortcircuit 60Hz 60Hz 50 Hz / 60Hz 60Hz 60Hz Withstand Rating HP (kw) Standard 100kA 5-150 (3.7 - 110) 5-200 (3.7 - 147) 5-300 (3.7 - 220) 5-450 (3.7 - 335) n/a Optional 150kA Standard 50kA 200 (147) 250 (184) 350 - 450 (257 - 335) 500 (373) 5-500 (3.7 - 373)Optional 100kA n/a n/a n/a n/a Standard: **Optional**: Ambient □ 5°C to 50°C / 41°F to 122°F Temperature □ 5°C to 40°C / 41°F to 104°F Rating □ 5°C to 55°C / 41°F to 131°F Surge Surge arrestor rated to suppress surges above line voltage Suppression · Isolating switch and circuit breaker assembly: - Door interlocked in the ON position - Isolating switch rated not less than 115% of motor full load current Disconnecting - Circuit breaker continuous rating not less than 115% of motor full load current Means - Overcurrent sensing non-thermal type, magnetic only - Instantaneous trip setting of not more than 20 times the motor full load current Common flange mounted operating handle Service Entrance Suitable as service entrance equipment Rating Emergency Start Flange mounted Integrated limit switch Handle Pull and latch activation · Across the line start (direct on line) Locked Rotor • Trip between 8 and 20 seconds · Operate shunt trip to open circuit breaker Protector Factory set at 600% of motor full load current Electrical • Voltage phase to phase (normal power) · Amperage of each phase when motor is running Readings Pressure · Continuous system pressure display Readings Cut-in and Cut-out pressure settings · Pressure readings with date stamp · Event recording with date stamp Pressure and Under regular maintained operation, events can be stored in memory for up to 5 years. Event recorder Data viewable on operator interface display screen · Downloadable by USB port to external memory device Pressure transducer and run test solenoid valve assembly for fresh water application Pressure sensing line connection 1/2" Female NPT **Pressure Sensing**  Drain connection 3/8" Rated for 0-500PSI working pressure (calibrated at 0-300psi) · Externally mounted with protective cover



**Technical Data TECH** Technical Data Model GPW Electric Fire Pump Controller

Audible Alarm	4" alarm bell - 85 dB at 10ft. (3	3m)					
Visual Indications & Alarms	<ul> <li>Phase reversal</li> <li>Motor run</li> <li>Pump room alarm</li> <li>Motor trouble</li> <li>Phase loss</li> <li>Phase unbalance</li> </ul>	<ul> <li>Locked rotor</li> <li>Periodic test</li> <li>Fail to start</li> <li>Low discharge pressure</li> <li>Low pump room temperature</li> <li>Pump room temperature (°F or °C)</li> <li>Pump on demand/Automatic start</li> <li>Emergency start</li> <li>Manual start</li> <li>Deluge valve start</li> <li>Remote automatic start</li> <li>Overcurrent</li> <li>Undercurrent</li> <li>Undervoltage</li> </ul>					
Remote Alarm Contacts		• Undervoltage perature • High Pump ro (field re-assignable)** Fail to start Ground fault	• Phase unbalance pom temperature				
ViZiTouch Operator Interface	<ul> <li>Embedded microcomputer w</li> <li>4.2" color touch screen (HMI</li> <li>Upgradable software</li> <li>Expandable storage</li> <li>Multi-language</li> </ul>						
	Automatic Start	<ul> <li>Start on pressure drop</li> <li>Remote start signal from</li> </ul>	automatic device				
	Manual Start	<ul> <li>Start pushbutton</li> <li>Run test pushbutton</li> <li>Deluge valve start</li> <li>Remote start from manual device</li> </ul>					
Operation	Stopping	<ul> <li>Manual with Stop pushbu</li> <li>Automatic after expiration</li> </ul>					
	Timers	Field Adjustable & Visual Countdown	<ul> <li>Minimum run timer ***(off delay)</li> <li>Sequential start timer (on delay)</li> <li>Periodic test timer</li> </ul>				
	Actuation	Viewel Indiaction	Pressure     Non-pressure				
	Mode	Visual Indication	Automatic     Non-automatic				

\*\*Tornatech reserves the right to use any of these three alarm points for special specific application requirements. \*\*\*Can only be used if approved by the AHJ



# **Technical Data TECH** Model GPW Electric Fire Pump Controller

🗆 A4	Flow switch provision
□ A8	Foam pump application w/o pressure transducer and run test solenoid valve
□ A9	Low zone pump control function
□ A10	Medium 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
□ B11	<ul> <li>Built in alarm panel (120V.AC supervisory power) providing indication for:</li> <li>Audible alarm &amp; silence pushbutton for motor run, phase reversal, loss of phase.</li> <li>Pilot lights for loss of phase &amp; supervisory power available</li> </ul>
□B11B	Built in alarm panel same as B11 but 220-240VAC supervisory power
🗆 B19	High motor temperature thermistor relay c/w visual indication and alarm contact (Form C-SPDT)
□ B21	Ground fault alarm detection c/w visual indication and alarm contact (Form C-SPDT)
□ C1	Extra motor run alarm contact (Form C-SPDT)
□ C4	Periodic test alarm contact (Form C-SPDT)
□ C6	Low discharge pressure alarm contact (Form C-SPDT)
□ C7	Low pump room temperature alarm contact (Form C-SPDT)
□ C10	Low water reservoir level alarm contact (Form C-SPDT)
□ C11	High electric motor temperature alarm contact (Form C-SPDT)
□ C12	High electric motor vibration c/w visual indication and alarm contact (Form C-SPDT)
□C14	Pump on demand/automatic start alarm contact (Form C-SPDT)
□ C15	Pump fail to start alarm contact (Form C-SPDT)
□ C16	Control voltage healthy alarm contact (Form C-SPDT)
□ C17	Flow meter valve loop open c/w visual indication and alarm contact (Form C-SPDT)
□ C18	High water reservoir level c/w visual indication and alarm contact (Form C-SPDT)
□ C19	Emergency start alarm contact (Form C-SPDT)

□C20	Manual start alarm contact (Form C-SPDT)
□C21	Deluge valve start alarm contact (Form C-SPDT)
□C22	Remote automatic start alarm contact (Form C-SPDT)
□C23	Remote manual start alarm contact (Form C-SPDT)
□ C24	High pump room temperature alarm contact (Form C-SPDT)
□Cx	Additional visual and alarm contact (specify function) (Form C-SPDT)
□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
□ D5	Pressure transducer and run test solenoid valve for fresh water rated for 0-500PSI (for calibration purposes only)
D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500PSI
□D10	Omit mounting feet (when applicable)
□D13	High withstand rating for: • 208V to 480V = 150kA • 600V = 100kA
□D14	Anti-condensation heater & thermostat
D14A	Anti-condensation heater & humidistat
D14B	Anti-condensation heater & thermostat & humidistat
□D15	Tropicalization
□D18	CE Mark with factory certificate
□D26	Modbus RTU provision
□ D26A	Modbus TCP/IP provision
□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
□D34	Field programmable I/O board - 8 Input / 5 output
□D35	Field programmable I/O board - 8 Input / 10 output
□D36	Redundant pressure transducer for fresh water rated for 0-500PSI (calibrated at 0-300PSI)
□ D36A	Redundant pressure transducer for sea water rated for 0-500PSI (calibrated at 0-300PSI)
□D37	Window kit for operator interface

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



Technical Data Model GPW Electric Fire Pump Controller

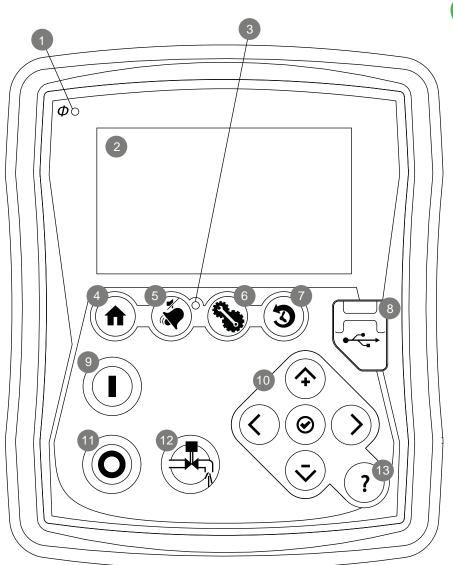
□ L01	Other language and English (bilingual)	🗆 L11	Czech
🗆 L02	French	🗆 L12	Portuguese
🗆 L03	Spanish	🗆 L13	Dutch
🗆 L04	German	🗆 L14	Russian
🗆 L05	Italian	🗆 L15	Turkish
□ L06	Polish	🗆 L16	Swedish
□ L07	Romanian	🗆 L17	Bulgarian
🗆 L08	Hungarian	🗆 L18	Thai
🗆 L09	Slovak	🗆 L19	Indonesian
□L10	Croatian	🗆 L20	Slovenian

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



# Technical Data Model GPW Electric Fire Pump Controller

### **ViZiTouch Operator Interface**





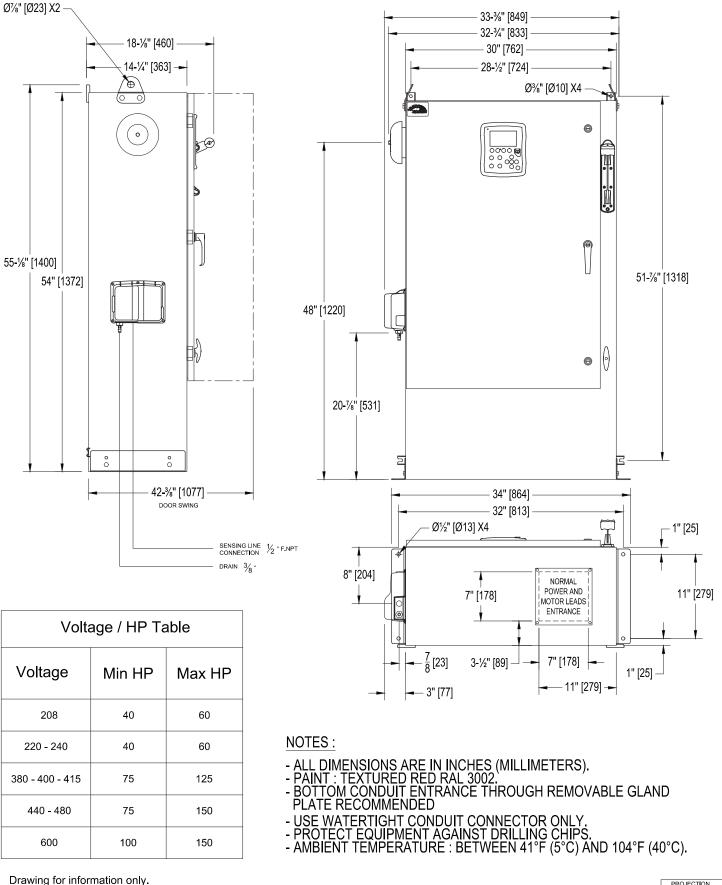
- 1 Power on LED
- 2 Color touch screen
- 3 Alarm LED
- 4 HOME page button
- 5 ALARM page button
- 6 CONFIGURATION page button
- 7 HISTORY page button

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

### MODEL : GPR/GPS/GPW

#### Dimensions

### BUILT TO THE LATEST EDITION OF THE NFPA20 STANDARD



Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.





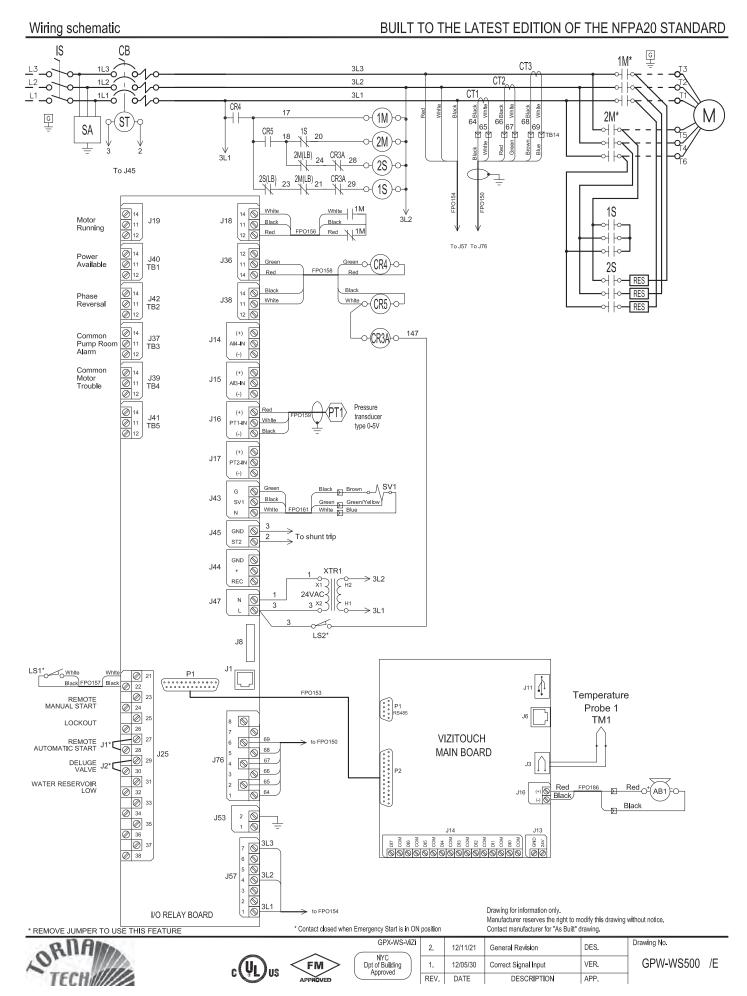




GPXDIM 13/01/14 HP TABLE DRAWING No. 12/07/20 PLATE DIM. AND IDENTIFI. DES. GPX-DI221 5. 11/10/24 NEW VIZI TOUCH VER. REV. DATE DESCRIPTION APP.

I /E

### ELECTRIC FIRE PUMP CONTROLLER MODEL : GPW REDUCED VOLTAGE / WYE DELTA (CLOSED TRANSITION)



## MODEL : GPx

#### Terminals Diagram and Sizing

**Power Terminals** 

Models : GPA, GPR & GPS

3 Phases Incoming Power Bonding Ground ΥΥΥ 60 666 L1 L2 L3 Gnd S 1M Gnd T1 T2 T3 Q Μ

Notes: 1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code. 2 - Controller suitable for service entrance in USA.

BUILT TO LATEST EDITION OF THE NFPA20 STANDARD

3 - For more accurate motor connections refer to motor manufacturer or motor nameplate. 4 - Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

5 - Field wiring and lug sizes base on copper conductors only. Do not use aluminium conductors.

		lso	plating Switch (IS	) Field Wiring acc	ording to Bendin	g Space (AWG or	MCM). TERMINA	LS L1 - L2 - L3		(Use Copper (	Conductors Only
Bending Space	5 " (127 mm)							8 " (203 mm)			
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 250)	1x (3/0 to 250)	1x (4/0 to 250)	
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (3 to 1/0)	
440 to 480	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)				
600	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)					
Bending Space	12 " (305 mm)				16 " (406 mm)						-
		12	(305 mm)				16 "	(406 mm)			
HP Voltage	75	100	125	150	200	250	<b>16 "</b> 300	(406 mm) 350	400	450	500
	75 1x (300 to 500)			150 2x (250 to 500)	200 2x (400 to 600)	250			400	450	500
Voltage		100	125						400		500
Voltage 208	1x (300 to 500)	100 1x (500)	125 2x (4/0 to 500)	2x (250 to 500)	2x (400 to 600)		300	350  2x (400 to 500)			
Voltage 208 220 to 240	1x (300 to 500) 1x (250 to 500)	100 1x (500) 1x (350 to 500)	125 2x (4/0 to 500) 2x (3/0 to 500)	2x (250 to 500) 2x (4/0 to 500)	2x (400 to 600) 2x (350 to 500)	 2x (500 to 600)	300 	350			
Voltage           208           220 to 240           380 to 416	1x (300 to 500) 1x (250 to 500) 1x (1/0 to 250)	100 1x (500) 1x (350 to 500) 1x (3/0 to 250)	125 2x (4/0 to 500) 2x (3/0 to 500) 1x (250)	2x (250 to 500) 2x (4/0 to 500) 1x (300 to 500)	2x (400 to 600) 2x (350 to 500) 2x (3/0 to 250)	2x (500 to 600) 2x (4/0 to 500)	300  2x (300 to 500)	350  2x (400 to 500) 2x (400 to 500)	  2x (500 to 600)	  2x (600)	

		Wi	ring Size for moto	or connection for	Model GPA, GPR	and GPS (AWG o	or MCM). TERMIN	ALS T1 - T2 - T3		(Use Copper	Conductors Only
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10)	1x (10)	1x (8 to 2)	1x (6 to 2)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 3/0)	1x (3/0)	1x (4/0 to 300)	
220 to 240	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (6 to 2)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0)	
380 to 416	1x (14 to 10)	1x (12 to 10)	1x (8 to 2)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (3 to 1/0)	
440 to 480	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	1x (4 to 1/0)	1x (3 to 1/0)	
600	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	1x (4 to 1/0)	
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300)	2x (2/0 to 300)	2x (4/0 to 300)	2x (250 to 300)	2x (400 to 600)						
220 to 240	1x (250 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (350 to 500)	2x (500 to 600)					
380 to 416	1x (1/0 to 3/0)	1x (3/0)	1x (250 to 300)	1x (300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300)	2x (400 to 500)	2x (500 to 600)	2x (600)	
440 to 480	1x (1 to 2/0)	1x (2/0 to 3/0)	1x (3/0)	1x (4/0 to 300)	2x (1/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (300)	2x (350 to 500)	2x (400 to 600)	2x (500 to 600)
600	1x (3 to 1/0)	1x (1 to 2/0)	1x (2/0 to 3/0)	1x (3/0)	1x (250 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300)	2x (250 to 300)	2x (300)	2x (350 to 500)

Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. For drawing for approval or installation, please contact manufacturer.







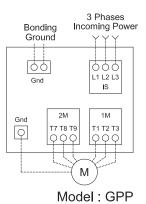
GPX-TD-ViZi NYC Dpt of Building Approved

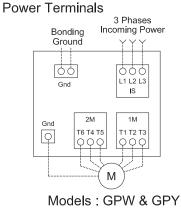
Drawing No. 4. 13/11/11 FIELD PROGRAMMABLE DES. 13/01/04 DATA ADDED TO TABLES VER. 3. REV. DATE DESCRIPTION APP.

GPX-TD500 1/3 /E

# MODEL : GPx

#### Terminals Diagram and Sizing





#### BUILT TO LATEST EDITION OF THE NFPA20 STANDARD

Notes:

1 - For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.

2 - Controller suitable for service entrance in USA.

3 - For more accurate motor connections refer to motor manufacturer or motor nameplate. 4 - Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

5 - Field wiring and lug sizes base on copper conductors only.

Do not use aluminium conductors.

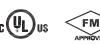
		lso	plating Switch (IS	) Field Wiring acc	ording to Bendin	g Space (AWG or	MCM). TERMINA	LS L1 - L2 - L3		(Use Copper	Conductors O
Bending Space				5 " (1	27 mm)	7 mm)			8 " (203 mm)		
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 250)	1x (3/0 to 250)	1x (4/0 to 250)	
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (3 to 1/0)	
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	
Bending Space		12 '	' (305 mm)		16 " (406 mm)						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300 to 500)	1x (500)	2x (4/0 to 500)	2x (250 to 500)	2x (400 to 600)						
220 to 240	1x (250 to 500)	1x (350 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (350 to 500)	2x (500 to 600)					
380 to 416	1x (1/0 to 250)	1x (3/0 to 250)	1x (250)	1x (300 to 500)	2x (3/0 to 250)	2x (4/0 to 500)	2x (300 to 500)	2x (400 to 500) 2x (400 to 500)	2x (500 to 600)	2x (600)	
440 to 480	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	2x (3/0 to 250)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	2x (400 to 600)	2x (500 to
600	1x (3 to 1/0)	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (250 to 500)	1x (350 to 500)	2x (3/0 to 250)	2x (4/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (350 to 5
					12 " (305 mm)					I	

		Wiring Size	for motor connec	tion for Model GI	PP, GPW and GP	(AWG or MCM).	TERMINALS T1 -	T2 - T3 - T4 - T5 -	T6 - T7 - T8 - T9	(Use Copper	Conductors Onl
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 1/0)	1x (4 to 2/0)	1x (2 to 3/0)	1x (1 to 3/0)	
220 to 240	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (8 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 1/0)	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 3/0)	
380 to 416	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (10)	1x (10)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	1x (4 to 1/0)	
440 to 480	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (12 to 10)	1x (10)	1x (10 to 2)	1x (8 to 2)	1x (6 to 2)	1x (6 to 2)	
600	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (14 to 10)	1x (12 to 10)	1x (12 to 10)	1x (10)	1x (10 to 2)	1x (8 to 2)	1x (8 to 2)	
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (2/0 to 3/0)	1x (3/0)	1x (250 to 300)	2x (1/0 to 300)	2x (3/0 to 350)						
220 to 240	1x (1/0 to 3/0)	1x (3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (4/0 to 350)					
380 to 416	1x (4 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 350)	2x (4/0 to 350)	
440 to 480	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 3/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)	2x (3/0 to 350)	2x (4/0 to 350)
600	1x (6 to 2)	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 3/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (250 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)

Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. For drawing for approval or installation, please contact manufacturer.









4. 13/11/11 FIELD PROGRAMMABLE 13/01/04 DATA ADDED TO TABLES 3. REV. DATE DESCRIPTION

Drawing No. GPX-TD500 2/3 /E

DES.

VER.

APP.

Remote Alarm Terminals (I/O board)

### MODEL : GPx

#### Terminals diagram

#### Normally open **10TOR RUN** ote Manual Start 🖉 J19 - 14 Remote Motor Closes to alarm Normally closed J19 - 11 Manual Close to start pump Running Opens to alarm Start 24 ⊘| J19 - 12 Normally closed Lockout Ø J40 - 14 \_⊘ 25 J25 Power Opens to alarm Normally open J40 - 11 <u>1</u>B1 Lockout Close to block start $\oslash$ Available (Fail Safe) Signal 26 Closes to alarm ⊘ J40 - 12 Automatic Start Normally open Auto... - 27 J25 ⊘ J42 - 14 Remote Phase Closes to alarm ÷₩ Open to start pump TB2 Automatic Normally closed ⊘ J42 - 11 J1[ Reversal If used, remove jumper J 28 Start Opens to alarm 🖉 J42 - 12 (RE-ASSIGNABLE) Deluge Valve Normally open Ø J37 - 14 Deluge 29 J25 Pump Closes to alarm TB3 Valve Open to start pump ·N 🖉 J37 - 11 Normally closed J2[ Room Signal If used, remove jumper J2 30 Opens to alarm 🖉 J37 - 12 Alarm (RE-ASSIGNABLE) Normally open Ø J39 - 14 Motor Closes to alarm Filed Connections for External Devices TB4 Normally closed J39 - 11 Trouble Opens to alarm 🖉 J39 - 12 (I/O board) Water Reservoir Low Water Reservoir - 0 31 J25 Low Close to signal alarm Normally open J41 - 14 Signal 32 (Field\* Closes to alarm TB5 Normally closed J41 - 11 Programmable) Opens to alarm Ø J41 - 12 Flow / Zone Flow / Zone ⊘ 33 Close to signal alarm Start / Stop , J25 Ø 34 Signal

Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. For drawing for approval or installation, please contact manufacturer.







GPX-TD-ViZi	4.	13/11/11	FIELD PROGRAMMABLE
lding	3.	13/01/04	DATA ADDED TO TABLES
	REV	DATE	DESCRIPTION

\*Not Available in GPS Models

Drawing No.

DES.

VER.

APP.

DESCRIPTION

GPX-TD500 3/3 /E

Control Terminals (I/O board)

BUILT TO LATEST EDITION OF THE NFPA20 STANDARD