

Simplex Control Panels

Features	8105G	8109	8111	8112	8114	8115	8117	8125	8126	8153	8164	8191	8193
Phase	1 or 3	1	1 or 3	1	1 or 3	1 or 3	1 or 3	1	3	1 or 3	1 or 3	1 or 3	1 or 3
Enclosure Type	4	4X	4X	1	4X	1	4 DDDF	4X	4X	1, 4X	4 DDDF	7	4X
Enclosure Construction	Steel	GRP	GRP	ABS	GRP	Steel	Steel	PC	PC	Steel GRP	Steel	Aluminum	GRP
Enclosure Size (inches)	24 x 22	10 x 8	14 x 12	7 x 4-1/2	10 x 8	20 x 12	20 x 20	10 x 7	10 x 7	20 x 16	24 x 24	30 x 28	20 x 16
1 Phase - 115V	X	X	X	X	-	X	X	X	-	X	X	X	X
1 Phase - 208-230V	X	X	X	-	X	X	X	X	-	X	X	X	X
3 Phase - 208-230V	X	-	X	-	X	X	X	-	X	X	X	X	X
3 Phase - 460V	X	-	X	-	-	X	X	-	X	X	X	X	X
Motor - Protector - Max. Amps Std	25	None	25	None	None	25	25	25	25	40	40	25	45
Extended Max Amps	X	-	X	-	-	-	X	-	-	X	X	X	X
Disconnect - Panel	X	-	-	-	-	X	X	-	-	X	X	X	X
Disconnect - Pump	X	-	X	-	-	X	X	X	X	X	X	X	X
U/L Label	X	X	X	-	-	X	X	-	-	X	X	X	X
Control Transformer	X	X	X	-	-	X	X	-	-	X	X	X	Equ
Pump Test-Off-Auto Selector Switch	X	X	X	-	-	X	X	X	X	X	X	X	Equ
Power to Pump Light - Green	X	X	X	-	-	X	X	X	X	X	X	X	Equ
Motor Overload Light - Red	X	-	X	-	-	-	X	-	-	Opt	X	X	Equ
Power to Panel Light	Amber	X	Amber	Green	Amber	Amber	Amber	-	-	Amber	Amber	X	Equ
HWA Horn 95 dB	X	X	X	-	-	X	X	-	-	X	X	-	X
HWA Red Light	X	-	X	-	-	X	X	-	-	X	X	X	Equ
HWA Isolated Contacts	X	-	X	-	-	X	X	-	-	X	2	X	X
HWA Test-Auto-Silence Switch	X	X	X	-	-	X	X	-	-	X	X		Equ
Hour Meter	-	-	X	-	-	-	X	-	-	Opt	X	-	X
Moisture Sensor Circuit	Opt	-	Opt	-	-	-	Opt	-	-	Opt	X	X	Opt
Temperature Limiter Circuit	Opt	-	Opt	-	-	-	Opt	-	-	Opt	X	X	Opt
Intrinsically Safe Relay - Level Control	Opt	-	-	-	-	-	-	-	-	Opt	X	X	Opt
Pump Run Isolated Contacts	X	X	X	-	-	X	X	-	-	X	X	X	X
Notes											Intrinsically Safe	Explosion Proof	PLC Touch Screen

X = Included as Standard Feature

GRP = Glass Reinforced Polyester
ABS = Acrylonitrile Butadiene Styrene

PC = Polycarbonate

DDDF = Double Door Dead Front
Opt = Available option at extra cost

Equ = Digital Equivalent

Duplex Control Panels

Features	8101E	8101G	8131	8136	8138	8151	8155	8158	8159	8162	8167	8165	8168	8192	8194
Phase	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3
Enclosure Type	4 DDDF	4	4X	4X	4X	1,4X	1	1	4X	4 DDDF	4DDDF	4 DDDF	4X DDDF	7	4X
Enclosure Construction	Steel	Steel	GRP	GRP	GRP	Steel GRP	Steel	Steel	GRP	Steel	Steel	Steel	Stainless Steel	Aluminum	GRP
Enclosure Size (inches)	24 x 24	30 x 24	14 x 12	14 x 12	20 x 16	24 x 20 24 x 24	20 x 12	20 x 12	14 x 12	20 x 20	20 x 20	24 x 24	20 x 20	30 x 24	20 x 16
1 Phase (115V)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1 Phase (208-230V)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 Phase (208-230V)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 Phase (460V)	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X
Motor Protector - Max Amps. Std	25	25	-	25	25	40	25	25	25	25	25	40	25	25	45
Extended Max Amps	X	X	-	-	X	X	-	-	-	X	X	X	X	X	X
Disconnect - Panel	One	Two	-	-	One	One	One	One	-	One	One	One	One	One	One
Disconnect - Pump	Two	Two	-	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two
U/L Label	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Electric Alternator	X	X	X	X	X	X	-	X	X	X	X	X	X	X	Equ
Control Transformer	Two	Two	One	One	One	One	One	One	One	One	One	One	One	One	Equ
Pump T-O-A Selector Switch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Equ
Power to Pump Light - Green	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Equ
Motor Overload Light - Red	Two	Two	-	-	-	-	-	-	Two	Two	Two	Two	Two	Two	Equ
Power to Panel Light - Amber	Two	Two	One	One	One	One	-	-	One	One	One	One	One	One	Equ
HWA Horn 95 dB	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X
HWA Red Light	X	X	X	X	X	X	Opt	Opt	X	X	X	X	X	X	Equ
HWA Isolated Contacts	Two	Two	Two	Two	Two	Two	Two	One	One	Two	Two	Two	Two	Two	X
HWA Test-Auto-Silence Switch	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Equ
Hour Meter	Two	-	-	-	-	Opt	-	-	Two	Two	Two	Two	Two	-	Equ
Moisture Sensor Circuit	Opt	Opt	-	-	-	Opt	-	-	-	X	-	X	Opt	X	Opt
Temperature Limiter Circuit	Opt	Opt	-	-	-	Opt	-	-	-	X	-	X	Opt	X	Opt
Intrinsically Safe Relay for Level Control	-	-	-	-	-	Opt	-	-	-	-	-	X	-	X	Opt
Pump Run Isolated Contacts	Two	Two	Two	Two	Two	Two	Two	Two	-	Two	Two	Two	Two	Two	Two
Notes	Two Control Circuits	Two Control Circuits					No Alternator			Moisture Sensor & Temp Limiter		Intrinsically Safe	Stainless Steel	Explosion Proof	PLC Touch Screen

X = Included as Standard Feature

GRP = Glass Reinforced Polyester

PC = Polycarbonate

DDDF = Double Door Dead Front

Equ = Digital Equivalent

Triplex Control Panel

Triplex panels provide complete alternating control of three identical pumps. Panels require four single-pole level control switches.

An additional single-pole level control switch is required for high water alarm.

Tamper-proof design. No operable switches on cover. Indicator lights, disconnect, switches and hour meters are on inner door.

Options Include:

- Moisture sensor/temp limiter package
- ISR circuit
- 304SS Enclosure

Available Models:

8183 or 8195 (PLC)

Quadplex Control Panels

Quadplex panel provides complete sequencing for four identical pumps. Panel requires five single-pole 8220 or 8230 level control switches.

An additional single-pole level control switch is required for high water alarm.

Tamper-proof design. No operable switches on cover. Indicator lights, disconnect, switches and hour meters are on inner door.

Options Include:

- Moisture sensor/temp limiter package
- ISR circuit
- 304SS Enclosure

Available Models:

8185 or 8196 (PLC)

PLC Control Panels

PLC Display Features

- Available in Simplex, Duplex, Triplex, or Quadplex
- Current Transducer provides pump run status and amperage draw
- High water alarm and general alarm indication
- Pump(s) status icons for Off, Run and Disabled.
- Sump Tank level bar graph
- Can use tethered floats or 8262 level transmitters for level control.
- Lead pump display. Next pump to start on sequence alternation.
- Alarm history is date and time stamped
- Alarms have self-help diagnostics to assist fault troubleshooting
- Fully Interactive
- Remote Monitoring

Model	Style
8193	Simplex
8194	Duplex
8195	Triplex
8196	Quadplex



NEMA Enclosures

Type	Description
1	Indoor Use Provides a degree of protection against falling dirt.
3R	Outdoor Use Provides a degree of protection against falling dirt & rain, sleet, snow; undamaged by the formation of ice on the enclosure.
4	Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; undamaged by the formation of ice on the enclosure.
4X	Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; protects against corrosion; undamaged by the formation of ice on the enclosure.
6	Indoor or Outdoor Use Provides a degree of protection against the entry of water during temporary limited submersion; undamaged by the formation of ice on the enclosure
6P	Indoor or Outdoor Use Provides a degree of protection against the entry of water during prolonged submersion at limited depths; protects against corrosion; undamaged by the formation of ice on the enclosure.
7	For indoor use in Class 1, Groups A, B, C, or D hazardous locations.
12	Indoor Use Provides a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of non-corrosive liquids.