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Fuel Systems for Critical Power

C1 Control Module

Simple Smart Control for Generator Fuel Systems
Fuel Tank Monitoring, Transfer, and Filtration.



General Description

The C1 Control Module is designed to be a simple smart control for Generator Fuel Systems. The UL Listed / CE Certified Controller performs all of the basic function for fuel tank monitoring, fuel transfer, and fuel filtration / polishing.

The C1 is designed for use as a stand-alone equipment controller where a simple common alarm interface to other systems is sufficient.

The C1 Control Module has a programmable Micro PLC which performs all of the required control sequences. The operator interface for alarm and status conditions is communication via flashing green and red LEDs.

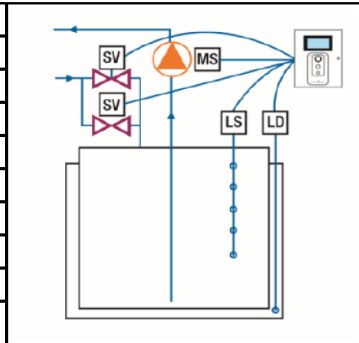
The C1 +P1 and C1+P2 modules have included pump motor starters, overload protection, and current sensing relays to provide pump performance feedback. Pump control is available for 120 / 208 VAC – 1 Phase – 50/60Hz motors or 230/460 – 3 Phase – 50/60 Hz motors.



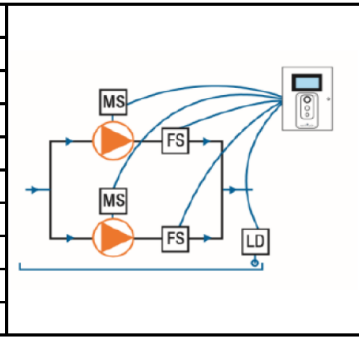
C1 Module

Dimensions	12"H x 12"W x 6"D (300 x 300 x150)
Approval	UL / CE
Power	120-240 VAC / 5A / 50-60 Hz Single or Dual Source
Enclosure	NEMA 4 Color RAL 7035 (Light Gray)
Environmental	-20 to 130F (-30 - 55C) with heater
Communication	Green and Red Interface LEDs pulse to provide smart alarm and status conditions
Other	5 Amp Output Relays (Typ)
Options	50 Hz Power 1 or 2 Pump Motor Staters CE Approval Intrinsic Safety Barriers Enclosure Heater
Modes	C1-TLC Day Tank Level Control C1-TLP Day Tank Pump Control C1-TFC Bulk Tank Fill Control C1-DPC Duplex Pump Control C1-FPC Fuel Polishing Control C1-HLL Tank Level / Leak Monitoring

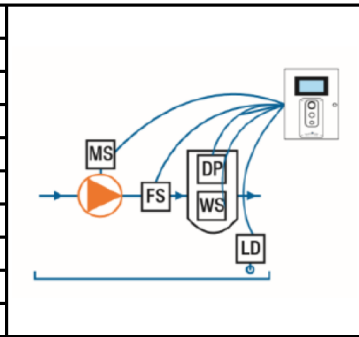
C1-TLC Day Tank Level Control I-O and Alarms			
I-O	Inputs	Outputs	Alarm Status
1	Reserved	Alarm	Fill Active
2	Reserved	Status	High Alarm
3	High Level	Pump / Valve	Low Alarm
4	Fill Stop Level	Remote Pump	Leak Alarm
5	Fill Start Level		E-Stop Engaged
6	Low Level		
7	Leak		
8	Reserved		



C1-DPC Duplex Pump Control I-O and Alarms			
I-O	Inputs	Outputs	Alarm Status
1	Pump 1 Manual	Alarm	Pump 1 Run
2	Pump 2 Manual	Status	Pump 2 Run
3	Pump Request	Pump 1 Start	Pump 1 Alarm
4	Flow Sensor 1	Pump 2 Start	Pump 2 Alarm
5	Flow Sensor 2		Leak Alarm
6			E-Stop Engaged
7	Leak		
8	Reserved		



C1-FPC Fuel Polisher Control I-O and Alarms			
I-O	Inputs	Outputs	Alarm Status
1	Cycle Manual	Alarm	Pump Run
2	Cycle Auto	Status	Pump Alarm
3	Flow Sensor	Pump 1 Start	Filter DP Alarm
4	Filter Pressure		Filter Water Alarm
5	Filter water		Leak Alarm
6			E-Stop Engaged
7	Leak		
8	Reserved		



C1-TFC Tank Fill Control I-O and Alarms			
I-O	Inputs	Outputs	Alarm Status
1	Fill Test	Alarm	95% High
2	Fill Active	Status	90% High
3	95% High Level	Valve Open	85% High
4	90% High Level		Valve Alarm
5	85% High Level		Leak Alarm
6	Valve Open LS		E-Stop Engaged
7	Leak		
8	Reserved		

