



Relay control inputs

Inlet Valve Control: Inlet feed valve to the system
RO Booster Pump Control: Contact for the VFD
Flush Valve Control: Permeate Inlet / Concentrate Bypass
Auxiliary Pump Control:
Divert Valve Control:
Alarm Control Relay:

Signet 515 Flow sensor inputs

F1: Permeate flow meter
F2: Concentrate flow meter
F3: Recirculate flow meter
F4: Misc flow meter

Conductivity Sensor Inputs

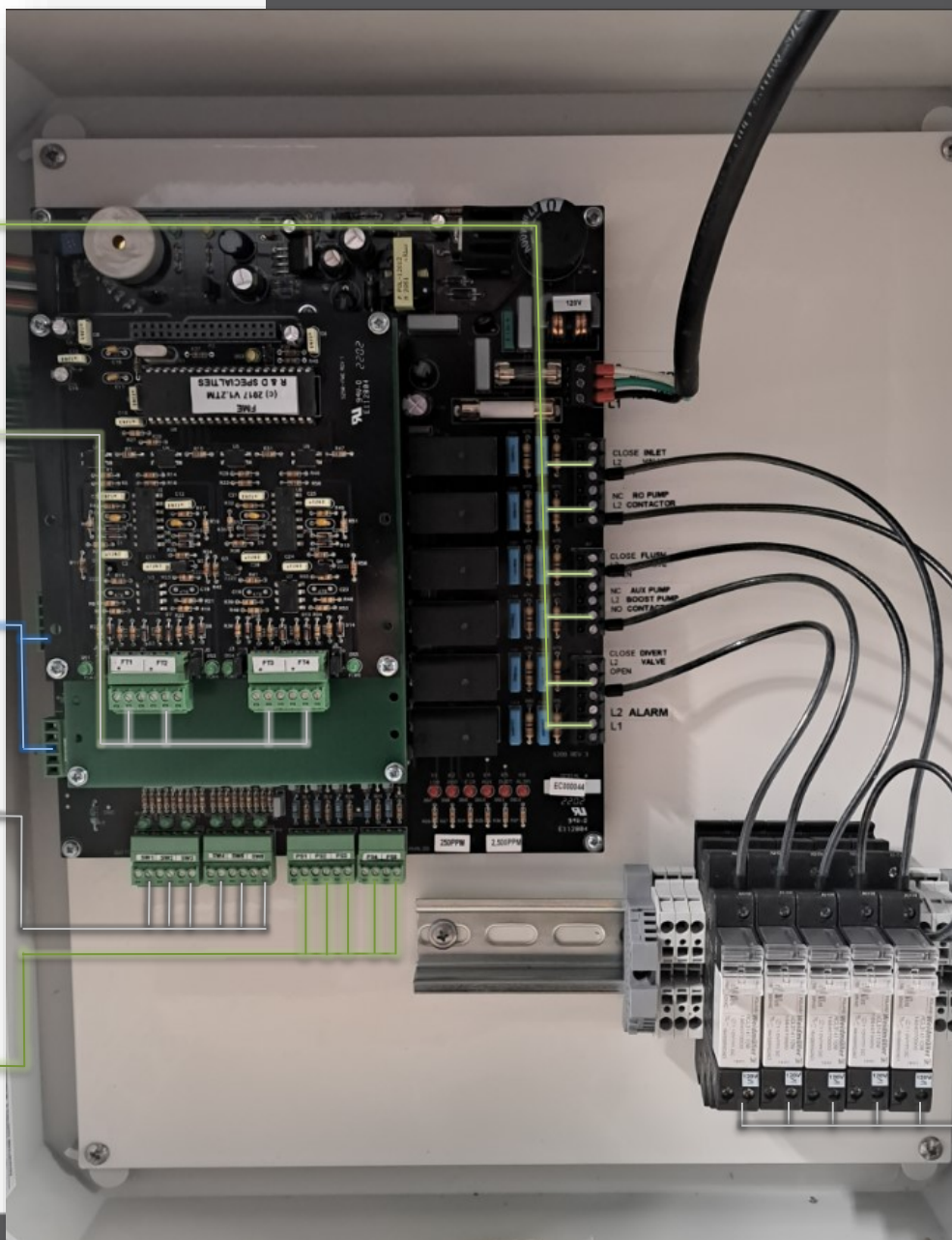
Top: C1 – Feed water
Bottom: C2 – Permeate Water

Dry Contact switch inputs

SW1: Low-pressure switch input
SW2: High-pressure switch input
SW3: Tank Full High – System Idle
SW4: Tank Full Low – System Restart
SW5: Tank Low – Aux. Pump Operation System Idle
SW6: P.T.L.O. – System Idle during filter backwash

Dry Contact switch inputs

PS1: Sediment Filter Inlet Pressure
PS2: Sediment Filter Outlet Pressure
PS3: RO Membrane Inlet Pressure
PS4: RO Membrane Outlet Pressure
PS5: Aux Pressure Sensor – Permeate Pressure



Power Supply Connection

120 VAC or 240 VAC, whatever voltage that is applied to the board. The entire relay bus will share the same voltage

Relay Outputs

SPDT relay. 5 AMP each. Total maximum output for all relays is 20A Output voltage is voltage supplied to board.

Dry Contact Outputs

Switch inputs are digital inputs that are open or closed. These are peripheral sensor inputs to control the system operation. You can adjust the setpoint to determine open or closed inputs to trigger system idle or operation.

Analog Inputs

Pressure sensors are analog inputs. They are 24 VDC loop feedback with a 4-20mA measured range. The range of the sensor is divided by .814 to establish the value.

Secondary Relay Contacts

These relays have independent voltage loops to operate. The control valves and VFD operation digital inputs are independent of the 120/240 VAC coil voltage of the Primary relays.