RO PRO

REVERSE OSMOSIS PLANT CONTROLLER

OVERVIEW

RO-PRO controllers are the complete solution to your automated RO plant. This controller controls the Raw water pump, High Pressure pump, Dosing Pump, Cleaning Pump and Flushing Solenoid. It also has a hooter to indicate alarms. The controller also takes inputs from key sensors like LP switch, HP switch, Conductivity controllers, pH controllers, ORP Controllers, Inlet level switch, Product level switch, Dosing level switch and more. The controller also continuously monitors phase voltages, & currents, phase reversal and imbalances ensuring that the plant trips for unbalanced voltages or excessive currents. Further these controllers can control Motorized Multiport Valves over a RS485 connection.

RO-PRO can also differentiate between permanent alarms and temporary alarms. RO-PRO restarts the plant after the temporary alarm condition, without any human interference. The controller trips the plant after a permanent alarm condition.

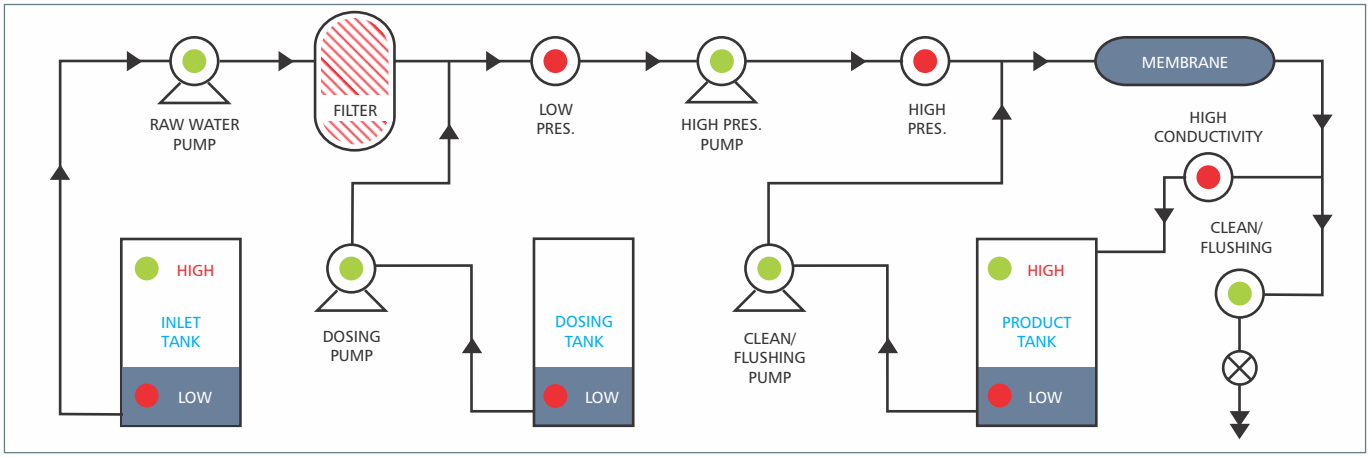
FEATURES

- Phase Voltage / Current Monitoring / Trip
- Single Phase Prevention
- Controls multiple Motorized valves over a simple 2wire RS485
- 8 / 16(Optional) Digital Inputs
- 16 Chr. 2 Line Backlit LCD Display
- Programmable Trip Points
- 19 LED's for process indication
- Automates LP, HP, Cleaning, Flushing
- RS485 connectivity

SPECIFICATIONS

Voltage / Frequency	440VAC ±15% or 220V AC (Factory set only) / 50/60 Hz
Power Consumption	Less than 2 Watt
Indication	16 Character 2 Line Backlit LDD Display
Indication Parameter	Phase Voltages, Phase Currents, Frequency, Last Time Run, Current Plant Run Time, Trip Parameters, Time in current State and Conductivity
Alarm	Low Pressure, High Pressure, High/Low Voltage / Current, Phase Sequence, Dosing Low, Inlet Low/High, Product Low/High, Conductivity/pH/ORP and optional additional 8 digital inputs
Programming	Using 6 keys in the front pane
Indiacation Accuracy	± 2% of full scale
Operating /Storage Temp.	-0 to 50° C / -40 to 85° C
Humidity	5-90% RH non-condensing
Relay Output / Rating	3 Standard, 6 Maximum / 5A, 220V AC Maximum
Housing	ABS face with MS Powder coated rear
Optional Features	
Conductivity	RS485, MODBUS protocol
HP Output Rating	2 (4-20mA / 0-5V) inputs

SCHEMATIC



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