Sigma Controls, Inc.
PROCESS CONTROLS AND INSTRUMENTATION

MADE IN AMERICA

MYRIAD QPC LITE QUADRAPLEX PUMP CONTROLLER

STANDARD FEATURES

- Σ **Microprocessor Based**
- Σ **Graphic LCD Display**
- Σ **5 Function Keys**
- Σ **Isolated 24VDC Sensor Power**
- Σ **4/20MA, 1-5V, 0-5V, 0-10VDC Input**
- Σ **1 Analog Input**
- Σ **7 Digital Inputs**
- Σ **4 Analog Outputs**
- Σ **4 Relay Outputs 5 AMP**
- Σ **4 Digital Outputs**
- Σ **Fully User Programmable in English**
- Σ **'MV Net' Port RS485 +User Port**
- Σ **'Pop Up' Alarm Screens**

THE MYRIAD QPC LITE PROVIDES COMPLETE CONTROL FOR 4 CONSTANT SPEED OR VARIABLE SPEED PUMPS

- Σ **Displays level in numeric and bar graph forms**
- Σ **Displays pump call status**
- Σ **Allows full user selection of all system variables**
- Σ **Monitors non critical alarms (seal leak, etc.)**
- Σ **Monitors hand-off-auto selections switch position for each pump**
- Σ **Provides digital and relay outputs for pump control, level alarm, and sensor fail**
- Σ **User selectable maximum number of pumps allowed to run**
- Σ **Provides 4/20MA outputs for VFD speed setting proportional control**
- Σ **Provides time and date 'stamped' alarm information**
- Σ **Audible and visual alarms**
- Σ **Allows simulation of level to exercise pumps or verify operation**
- Σ **Provides resettable elapsed timers for each pump**
- Σ **Records "MAX" and "MIN" process values and a graphic trend display for trouble shooting**
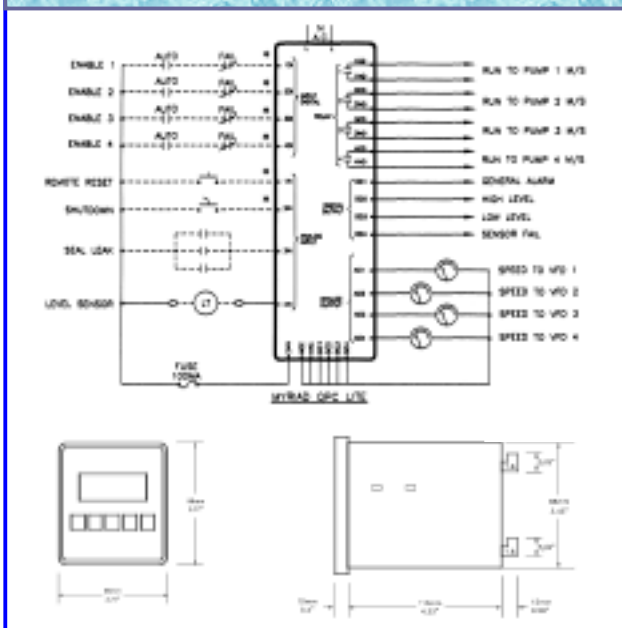- Σ **Available in 1/4 DIN panel mount and Nema 4X enclosures**

The Myriad QPC LITE ushers in a new generation of pump controllers. From the 1/4 DIN 4" X 4" housing with fully removable P.C. board, to the 128 X 32 pixel bitmapped LCD display and simple user set up, the Myriad QPC LITE offers pump control and management for up to 4 pumps. Relay outputs may be configured for pump control and alarms and are front panel programmable for 'set' and 'reset' points. Graphical and numerical, process displays are standard.

VISIT OUR WEBSITE AT SIGMACONTROLS.COM

MYRIAD QPC LITE QUADRAPLEX PUMP CONTROLLER

SPECIFICATIONS

Inputs (1 ea.)	Analog, 4/20MA, 0-5V, 1-5V, 0-10C. isolated with common negative, ± 0.1% accuracy.
Inputs (7 ea.)	Digital 10-30 VDC
Analog Outputs (4 ea.)	Analog, with common negative 0-20MA, 4/20MA, 0-5V,0-10V (voltage output requires a resistor)
Relay Outputs (4 ea.)	SPDT, Form 'C' 5A relay
S.S.R. Outputs (4 ea.)	Digital, Opto isolated
Display	LCD, 128X 32 bitmapped graphical display
Loop Power	24 VDC regulated output, 100MA max.
5 User Keys	Up, Down, Left, Right, Enter
Accuracy	0.1% of calibrated span
24VDC Excitation	Output 100MA
Lockout	User password
Input Impedance	Voltage 100K current 100 OHMS
Power	120/230 VAC
Environmental	Operating: 0-65°C Storage: -40° - 80°C R.H., 0-90% non condensing
Enclosure (front panel unit)	1/4 DIN rail mount enclosure, Nema 1
Front Panel	Gasketed Nema 4X
Access	Chassis & boards easily remove from front of case (Front panel unit)
Terminal Strip	'Pluggable' for ease of wiring 28-16 AWG
Connections	Removable screw terminal blocks, 2e8 – 16 AWG wire
Control Outputs	Four digital outputs user programmable, SPDT Form 'C' relays 5 AMP, four solid state outputs
Alarm Annunciation	Multiple alarm annunciation on graphic screen, on board piezo buzzer, remote alarm relay outputs
Programming	Menu based, all parameters and setpoints are user configurable via menu prompt and the user keys using the preconfigured screens and 'pull down' sub menus with English prompts assures rapid setup and commissioning.
Selectable Pump Alternation and Sequencing	Pump omit, lead pump select configurable as duplex with standby, triplex with standby. User level 'simulator' for system test, pump 'exercise'.
Warranty	One year warranty
Options	Include relay outputs, expansion cards
'MV Net'	Network allows multiple units to be connected together for distributed applications up to 128 controllers on a single network
Expansion Cards	Contact factory.

DIMENSIONS

SCREEN SAMPLES