Sigma Controls, Inc.
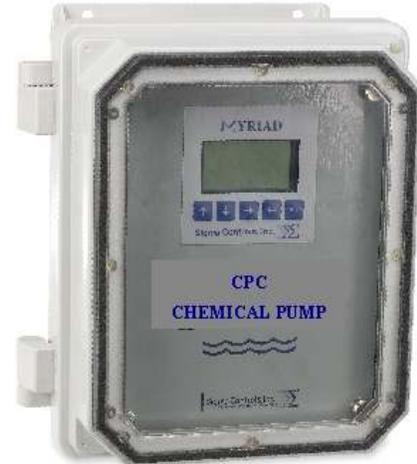## PROCESS CONTROLS AND INSTRUMENTATION

MADE IN AMERICA

MYRIAD CPC DUPLEX CHEMICAL 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 Inputs**
- Σ **6 Digital Inputs**
- Σ **4 Analog Outputs**
- Σ **4 Relay Outputs 5 AMP**
- Σ **2 Pulse Outputs**
- Σ **Fully User Programmable in English**
- Σ **'MV Net' Port RS485 +User Port**
- Σ **'Pop Up' Alarm Screens**

THE MYRIAD CPC PROVIDES COMPLETE CONTROL FOR TWO CHEMICAL PUMPS, CONSTANT SPEED OR VARIABLE SPEED

- ➢ **Displays process in numeric and bar graph forms**
- ➢ **Displays pump run status**
- ➢ **Allows full user selection of all system variables**
- ➢ **Monitors critical alarms (Hi Process, Low Process, Pump Fail, etc.)**
- ➢ **Monitors non critical alarms**
- ➢ **Monitors hand off auto selections switch position**
- ➢ **Monitors pump 'run' feedback**
- ➢ **Provides digital and relay outputs for pump control, process alarms, sensor fail, pump fault**
- ➢ **Provides 4/20MA outputs for pump speed setting and proportional control**
- ➢ **Retransmits process signal**
- ➢ **Provides time and date 'stamped' alarm information**
- ➢ **Audible and visual alarms**
- ➢ **Allows simulation of process to exercise pumps or verify operation**
- ➢ **Records "MAX" and "MIN" process values and a graphic trend chart for trouble shooting**
- ➢ **Available in 1/4 DIN panel mount and Nema 4X enclosures**

The Myriad CPC ushers in a new generation of chemical pump controllers. From the ¼ 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 DPC offers unmatched versatility in pump control and management. The unit accepts a standard analog input signal and offers isolated retransmission of signal. Relay outputs may be configured for pump control or alarms and are front panel settable, for 'set' and 'reset' points.
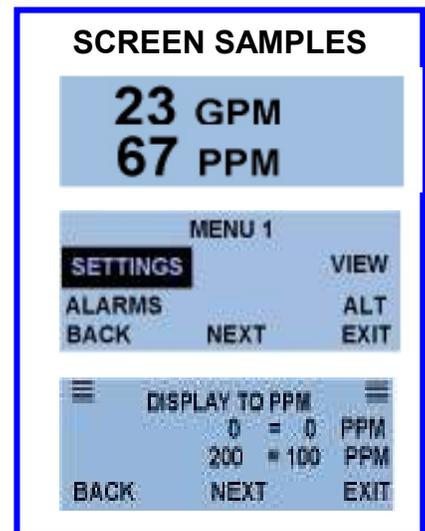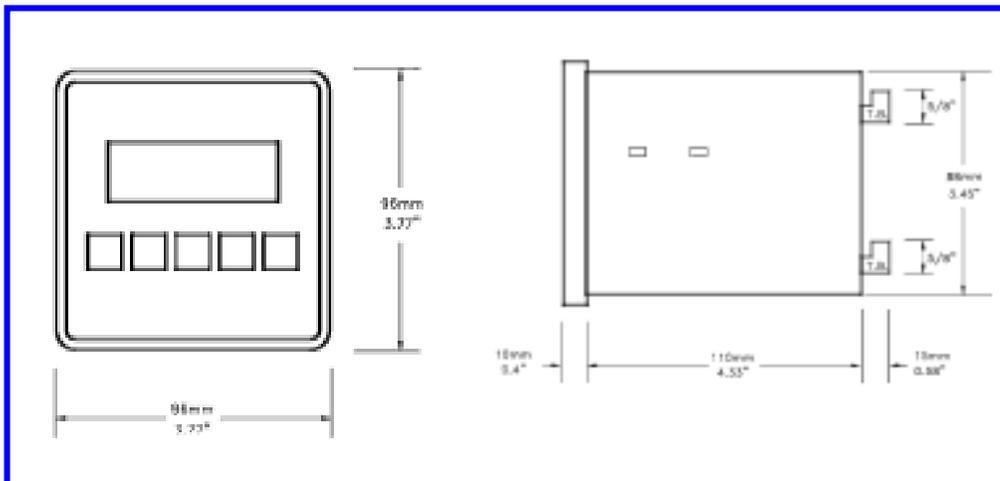
Graphical and numerical, process displays are standard.

• INPUTS (1 ea.)
Analog, 4/20MA, 0-5V, 1-5V, 0-10VDC, isolated with common negative, +-0.1% accuracy

• INPUTS: (6 ea.)
Digital 10-30V AC or DC, 120 or 240 VAC Opto isolated

• OUTPUTS: (4 ea.)
Analog, with common negative 0-20MA, 4/20MA, 0-5V, 0-10V (voltage output requires a resistor)

• OUTPUTS: (4 ea.)
SPDT, Form 'C' 5A relay

• OUTPUTS: (2 ea.) Digital, Opto isolated, pulse, 100PPM max.

• DISPLAY:
LCD, 128 X 32 bitmapped graphical display

• LOOP POWER:
24VDC 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:
¼ Din, ABS Plastic 96X96x150mm

• FRONT PANEL:
Gasketed Nema 4X

• ACCESS
Chassis & Boards remove from front of case

• TERMINAL STRIP
(40) 'Pluggable' for Ease of Wiring 28 – 16 AWG

• CONNECTIONS:
Removable screw terminal blocks 28 - 16 AWG wire

• CONTROL OUTPUTS
Four digital outputs user programmable, SPDT Form 'C' relays 5 AMP

• ALARM ANNUNCIATION:
Multiple alarm annunciation on graphic screen, on board piezo buzzer

• 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, pump omit, lead pump select. User level 'simulator' for system test pump 'exercise'.

• 1 YEAR WARRANTY

• OPTIONS
Include relay outputs, real time clock, 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
Allow up to 8 relay outputs, 8 digital outputs, 8 analog input and 8 analog output in a single ¼ din panel mountable case.

SCREEN SAMPLES

23 GPM
67 PPM

MENU 1
SETTINGS   VIEW
ALARMS   ALT
BACK   NEXT   EXIT

DISPLAY TO PPM
0 = 0 PPM
200 = 100 PPM
BACK   NEXT   EXIT