

## MYRIAD TPC TRIPLEX PUMP CONTROLLER

THE MYRIAD TPC PROVIDES COMPLETE  
 CONTROL FOR TWO OR THREE CONSTANT  
 SPEED OR VARIABLE SPEED PUMPS



### STANDARD FEATURES

- Microprocessor Based
- Graphic LCD Display
- 5 Function Keys
- Isolated 24VDC Sensor Power
- 4/20MA, 1-5V, 0-5V, 0-10VDC Input
- 2 Analog Inputs
- 21 Digital Inputs
- 4 Analog Outputs
- 4 Relay Outputs 5 AMP
- 4 Digital Outputs
- Fully User Programmable in English
- 'MV Net' Port RS485 +User Port
- 'Pop Up' Alarm Screens
- Backup Float Control Inputs
- Local or Remote Silence/Reset Inputs
- 'Emergency Stop' Input
- Sequence Selected Switch Input

- Displays level in numeric and bar graph forms
- Displays pump run status
- Allows full user selection of all system variables
- Monitors critical alarms (motor over temperature, etc.)
- Monitors non critical alarms (seal leak, etc.)
- Monitors hand-off-auto selections switch position for each pump
- Monitors pump (VFD) 'run' feedback
- Provides digital and relay outputs for pump control, level alarm, sensor fail, pump fault and seal leak
- Accepts second (backup) level sensor input
- User selectable maximum number of pumps allowed to run
- Provides 4/20MA outputs for VFD speed setting , proportional control and re-transmission
- Provides time and date 'stamped' alarm information
- Audible and visual alarms
- Allows simulation of level to exercise pumps or verify operation
- Provides resettable elapsed timers for each pump
- Records "MAX" and "MIN" process values and a graphic trend display for trouble shooting
- Available in 1/4 DIN panel mount and Nema 4X enclosures
- Primary or backup float control standard via keypad or or external inputs
- Reset and silence
- E/Stop input
- Sequence selector input

The Myriad TPC 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 TPC offers pump

control and management for up to 3 pumps.

The unit accepts two analog input signals. Relay outputs may be configured for pump control and alarms and are front panel programmable for 'set' and 'reset' points.

## MYRIAD TPC TRIPLEX PUMP CONTROLLER

Graphical and numerical, process displays are standard.

- **INPUTS: (2 EA.)**  
Analog, 4/20MA, 0-5V, 1-5V, 0-10 C, isolated with common negative, + -0.1% accuracy.
- **INPUTS: (21 EA.)**  
Digital 10-30V DC,
- **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, 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: (Front Panel Unit)**  
¼ Din, ABS Plastic 96x96x150mm.
- **ENCLOSURE: (Back Panel Unit)**  
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 28 – 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 output.

- **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'.
- **1 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.

### SCREEN SAMPLES



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