

MODEL MCP-TP MULTI PROCESS CONTROL PANEL SERIES

KEY FEATURES

- Compatibility with remote SCADA , Hardwired 4 to 20 mA or local set-point(s) adjustment
- Flexibility of single or multiple process monitoring and control
- Optional 1 panel for multi- valve application
- Precise valve positioning and visual status indication
- Robust and self-contained in NEMA 4X rated panel
- Colour touch screen interface display



For indoor use only. For outdoor applications, consult factory.

PRODUCT OVERVIEW

The MCP-TP Series is a multiple process loop control panel designed to complement the Singer Model 2SC-PCO Dual Solenoid Control Valve. Range of application is dependent on the feedback (process variables) transmitters used, which is similar to (but not limited to) combination automatic control valve functions with conventional pilots. The MCP-TP control panel has the ability to monitor multiple processes and remotely control the dual solenoid control valve based on system conditions. The MCP-TP control panel can function as a simple single loop controller (eg. pressure reducing, flow control, level control) or as a multiple loop controller (eg. flow and pressure, or reducing and sustaining).

The MCP-TP reads transmitted signals and energizes the dual solenoid pilots on the Singer control valve. The MCP-TP can react to any change in conditions by monitoring the system continuously and comparing actual process values to desired set-point values.

The Multi-Process Control Panel incorporates a high performance PLC-based control with P.I.D. optimization to provide control of multiple processes, such as pressure reducing, flow control, level and sustaining. Singer will customize the program to match your specific application needs. Optional alarm outputs for SCADA is available.

TOUCH PANEL

Model (MCP-TP) touch panel screen is a user-friendly operator interface that enables intuitive control and monitoring. Model (MCP-TP) touch panel screen eliminates the need for mechanical push buttons, switches, and indicator lights and readouts. The screen is custom tailored to customer-specific application requirements.

Touch Panel Details

Dimensions: 7 in / 175 mm W x 5 in / 125 mm L

Display: 256 Color TFT

Protection: NEMA 4X rain-tight (indoor use only)

Screen can be customized to application

ORDERING INSTRUCTIONS

Refer to page 244 for the order form and ordering instructions.

Additionally, include the following information for this product:

1. Application details
2. Solenoid voltage
3. Source of set-point signal (4-20 mA)
4. Source of process variable signal(s)
5. Number of processes to be controlled

TYPICAL APPLICATION

MCP-TP monitors inlet pressure while filling tank at a relatively steady flow rate. If tank is full, valve closes. If inlet pressure drop below normal, valve will modulate to close to keep inlet pressure from dropping further.

