

## SERIES 700 PDL PROCESS DATA LOGGER

### STANDARD FEATURES

- Σ Accepts up to 8 Analog 4/20MA Transmitters
- Σ Microprocessor Based
- Σ Two Line Backlit LCD Display
- Σ 3 User Programming Buttons
- Σ Integral LED Alarm & Status Lights
- Σ 4 Relay Outputs for Alarms
- Σ 8 MB Data Logger
- Σ USB Port for Datalog Download
- Σ MODBUS® Port for Remote Monitoring
- Σ 10-28VDC or 110VAC Operation



The Sigma Controls 700 PDL is a microprocessor based analog sensor monitor/display/ data-logger, for monitoring of various 4/20ma signals.

The integral dual line LCD display provides continuous information regarding the analog input values while datalogging based on user selected time intervals. Logged data is saved in a CSV (Excel®) format and can be downloaded via the provided USB port, using the Sigma provided software.

An industry standard MODBUS® data port can be utilized for SCADA applications or to monitor other ADL units in a distributed network.

The 700 PDL is mounted in a Nema 4X weatherproof non-

metallic enclosure and is fully wired and terminated facilitating simple installation.

The keypad's integral LCDs provide status and alarm indications to local operators.

- ANALOG INPUTS: (8 EA.)  
Analog 4/20ma, with common negative
- RELAY OUTPUTS: (4 EA.)  
SPDT, Form 'C'; 5A relay
- ACCURACY:  
0.1% of calibrated span.
- DISPLAY:  
LCD, Two line alphanumeric display
- LOOP POWER (with 110VAC supply), 24VDC regulated output, 100MA max.
- 3 USER KEYS:  
Up, down, enter
- LOCKOUT:  
User password
- INPUT IMPEDANCE:  
Voltage 100K current 100 OHMS
- POWER:  
10/24 VDC or 120 VAC
- ENVIRONMENTAL:  
Operating, 0-65°C  
Storage: -40°-80°C  
R.H., 0-90% non condensing
- ENCLOSURE:  
Nema 4X wall mount FRP
- FRONT PANEL:  
Gasketed Nema 4X
- ACCESS:  
Chassis & boards remove from front of case

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## SERIES 700 PDL PROCESS DATA LOGGER

- **TERMINAL STRIP**  
(40) 'Pluggable' for ease of wiring  
28-16 AWG wire
  - **CONNECTIONS:**  
Removable screw terminal blocks  
28-16 AWG wire
  - **CONTROL OUTPUTS:**  
Four digital outputs user  
programmable, SPDT Form 'C'  
relays 5 AMP
  - **ALARM ANNUNCIATION:**  
6 Integral LCD lights, 3 red and 3  
green
  - **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.
  - 1 YEAR WARRANTY
  - MODBUS® RS485 DATA PORT
  - USB DATA PORT
  - 8 MB DATALOGGER
- \* U.L. APPLIES TO OPTIONAL ENCLOSURE

