

12" CHART RECORDERS

Partlow MRC 8000

12 Inch 1 & 2 pen recorder/controller

The MRC 8000 is offered in two versions: a basic recorder and a recording controller. Both may be specified as either single pen or dual pen units. Each version is capable of measuring, recording and displaying temperature, pressure, level, flow and other process variables.

The MRC 8000 includes isolated universal inputs and a list of optional capabilities including: transmitter power supply, 5A relay outputs, auxiliary inputs for remote setpoints, RS-485 communications, door lock and NEMA 4X enclosure

- 12" Micro-based recording controller with remote setpoint capability
- Two large displays allow you to see critical process values at the same time on 2 pen models
- Easy, straightforward programming allows you to configure your recorder with a logical step-by-step process using a simple keypad
- High resolution of recorder process variables for better record accuracy
- Reliability maintenance free recording for years to come



Applications

- Process Validation
- Trend Analysis
- Regulatory Compliance
- Product Safety
 - Temperature
 - Pressure
 - pH Level
 - Flow

| FUNCTION | MRC 8000 |
|----------------------------|--|
| Modes | Digital; record or controller functionality. |
| Display | Two 4 digits digital displays: 0.56½ high, red, seven segment LED; 3 button keypad; automatic and decimal point positioning. |
| Control Outputs | |
| Relay | SPDT; 115VAC 5.0A resistive, 1/8HP, 230VAC, 230VAC 2.5A resistive, 1/8HP, 250VA. |
| ON/OFF | Assignable to alarm and control outputs. |
| SSR Driver | Open collector output; short-circuit protected @ 100mA max; provides 4VDC @ 20mA or 3VDC @ 40mA. |
| Current | Assignable to process value or setpoint transmission or control outputs; 0-20mA or 4-20mA nominal output span; 650ohms |
| Alarm/Event Outputs | |
| Relay | SPDT; 115VAC 5.0A resistive, 1/8HP, 230VAC; 230VAC 2.5A resistive, 1/8HP, 250VA. |
| SSR Driver | Open collector output; short-circuit protected @ 100mA max; provides 4VDC @ 20mA or 3VDC @ 40mA. |
| Process Alarm | Direct (High) or Reverse (Low) 9999 to 9999 units. |
| Deviation Alarm | Direct (deviation above setpoint) or Reverse (deviation below setpoint) 3000 to 3000 units. |
| INPUTS | |
| Thermocouple | Type J, K, T, E, N, C, T/C and RTD ±0.25% of reading + 1° @ 25°C; Type R, S, B, C, T/C ±0.25% of span @ 25°C |
| PERFORMANCE | |
| Chart Accuracy | Recording: 0.5% of span. |
| Chart Rotation | ±0.5% or rotation time. |

Ordering informations:

| Code 1: Model | Code 2: Pen 1 | Code 3: Pen 2 | Code 4: Relay (SPST) Outputs* | Code 5: SSR Driver Outputs* | Code 6: 4-20 mA Outputs* | Code 7: Transmitter Power supply | Code 8: Auxilliary Input | Code 9: Pen 2 Auxilliary Input | Code 10: Digital Communication | Code 11: Enclosure Options | Code 12: Operating Voltage |
|---|------------------------|---|---|-----------------------------------|--------------------------------|--|--|--|--------------------------------------|--|--|
| MRC8000 Recorder/ Controller | 1 Recorder Only | 0 None | 0 None | 0 None | 0 None | 0 None | 0 None | 0 None | 0 None | 1 Glass Window NEMA 3 | 1 115VAC |
| | 4 High/Low Limit*** | 1 Recorder Only 2 Recording Controller | 1 One SPST 2 Two SPST 4 Four SPST | 1 One 2 Two 4 Four | 1 One 2 Two | 1 24VDC Regulated/ isolated | 1 Position Proportioning 2 Remote Set point | 1 Position Proportioning 2 Remote Set point | 2 RS-485 Total Access | 2 Glass Window NEMA 4X 3 Glass Window NEMA 3 w/Door lock 4 Plastic Window NEMA 3 5 Plastic Window NEMA 4X 6 Plastic Window NEMA 3 w/ Door lock | 2 115/ 230VAC WITH CE 4 115VAC 5 115/ 230VAC |

* Total quantity of SPST Relays and SSR Drivers must be less than or equal to four