

Partlow MRC 7800 Chart Flow Recorder

Circular Chart Recorder for Recording Flows from Analog Flowmeters



Description

The Partlow MRC 7800 Flow Recorder is a microprocessor-based circular chart recorder capable of measuring, displaying, recording, and totaling flow process variables based on an analog signal from any flowmeter.

Capable Functions

The MRC 7800's record functions, alarm settings, and other parameters are easily configured from the front-mounted keypad and self-prompting displays. All user data can be protected from unauthorized changes by the unit's Enable Mode security system. The MRC 7800's standard battery backup system protects the unit against loss of data associated with AC power failures.

What's in the Box

All of the MRC 7800 recorders listed in the Ordering & Options section below include: a totalizer and display; 24 VDC transmitter power supply; CSA approved 115/230 VAC, 50/60 Hz line voltage; two SPDT output relays; one or two 4-20 mA retransmission outputs (depending on model); and a box of 100 starter charts (0-100/24 HR). Other options such as a NEMA 3 enclosure and additional relays are also available. Please call us for additional information.

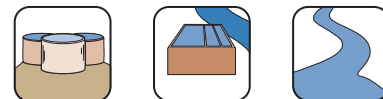
Specifications

Functionality	Record or diverse record/totalizer combination functions
Line Voltage	115V/230VAC $\pm 10\%$, 50-60Hz @ 25VA max; CSA approved
Display	4 digit; 0.56" high, red, 7-segment LED w/3-button keypad
LED Indicators	Out 1, 2; one green pen 2 indicator; ALRM1 and ALRM2 indicators
Chart	10" circular chart
Chart Drive	DC Stepper Motor
Chart Rotation	User configurable from 0.1 and 999.9 hours per revolution
Chart Range	Bottom and top of span -9999 to 9999 units
Pen Type	One or two disposable fiber tip pen(s)
Pen Color	Pen 1 (red); Pen 2 (green)
Memory Backup	Battery; 5 year minimum life
Enclosure	Injection molded Noryl case; acrylic window; panel or wall mount
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-40 to 149°F (-40 to 65°C).
Outputs	Relay: SPST/SPDT; 115VAC 5.0A resistive, 1/8HP, 250VA; 230VAC 2.5A resistive, 1/8HP, 250VA SSR Driver: Open collector output; short circuit protected @ 100mA max; provides 4VDC @ 20mA or 3VDC @ 40mA Current: 0-20mA or 4-20mA; 0-650 ohm maximum load. Process Alarm: Direct (High) or Reverse (Low); 0 to 9999 units
Inputs	DC Milliamps: 0-20mA; 4-20mA (with included shunt resistor) Volts: 0 to 5 VDC; 1 to 5 VDC DC Millivolts: 0 to 100mV (can be scaled to any portion of this range) Isolation: Inputs are a common ground signal Input Error: mA, mV, and VDC $\pm 0.25\%$ of scaled span or better typically; ± 1 least significant digit @ 25°C
Chart Accuracy	$\pm 1\%$ of chart span
Approvals	CE, UL, CSA, FM, ISO 9002 registered
Dimensions	15.13 x 13.19 x 3.63" (384 x 335 x 92mm)
Panel Depth	2.5" (64mm); panel protrusion 1.3" (33mm)
Weight	20 lbs (9.1kg)
Warranty	3 years

Features

- Flow recording and totalizing, plus controller in one package
- Easy, straightforward programming
- High reliability

Applications



Ideal for monitoring flows in wastewater influent and effluent, potable water well and raw water, treatment plant processes, and environmental sites.

Ordering & Options

Chart Recorders

Order No.	Pens	Retrans	Displays
786801100022	1	1	1
788802100022	2	2	1
789801100022	1	1	2

Replacement Pens

Order No.	Color	Pen/ Input	Per Pack
CP410	Red	Pen 1	5
CP411	Green	Pen 2	5

Replacement Chart Paper*

Order No.	Range	Rotation Speed	Per Pack
CP001	0-100	24 hr.	100
CP002	0-100	7 day	100
CP003	0-5	24 hr.	100
CP004	0-5	7 day	100
CP005	0-10	24 hr.	100
CP006	0-10	7 day	100
CP007	0-14	24 hr.	100
CP008	0-14	7 day	100

* Please call us for chart paper not listed here.



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