

# Partlow MRC 5000 Chart Recorders

Circle Chart Recorder for Measuring, Recording, and Controlling Variables



## Description

The Partlow MRC 5000 is a digital circle chart recorder capable of measuring and recording up to two process variables from a variety of inputs. Please contact us for an optional version that also is capable of control. The MRC 500 is designed with the latest innovations in recording technology, enclosures, and functionality. The unit is slim, trim, and simple. With its compact panel depth and short protrusion from the front panel, the unit is easy to install.

## Simple Setup Mode

The MRC 500 has a mode switch beside its display that provides two functions, including a PROG/CAL/TEST mode that provides access to program parameters, calibration facilities, and test functions. Hardware options are matrix selectable and are shipped with default settings.

## Versatile Inputs and Universal Power

The versatile MRC 5000 accepts 4-20 mA or 20-4 mA inputs as well as mVDC, VDC, thermocouple, and RTD inputs. Changes in input type are easily programmed in the field. With its universal power supply (90-264VAC line voltage at 50-60Hz), the MRC 5000 can be installed just about anywhere.

## What's in the Box

Each MRC 5000 ships with a NEMA 3 case. Each unit also includes a box of 100, 0-100/24 hour, 10" charts. Choose from the models and features listed below or call us for optional equipment including: a controller version, a NEMA 4 case, an RS-485 communications port, and different chart ranges.

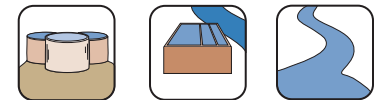
## Specifications

Functionality	Record only or high/low limit and record/control, depending on model
Display	4 digit; 0.56" high, red, 7-segment LED w/3-button keypad
LED Indicators	Four red alarm status; one green pen 2 indicator
Chart	10" circular chart
Chart Drive	DC Stepper Motor
Chart Rotation	User-configurable: 8, 12, 24 or 48 hrs or 7 days
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	Non-volatile EEPROM
Enclosure	Injection molded Noryl case; acrylic window
Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-40 to 149°F (-40 to 65°C)
Control Outputs	SPDT relay, 5A resistive at 115VAC
Alarm Outputs	Process high or low; up to two process alarms for each of two inputs
Inputs	DC Milliamps: 0-20mA; 4-20mA; internal 4.7ohm shunt resistor Thermocouple: J, K, T, R, S RTD: 100 ohm, platinum; 0.00385 ohms/ohm/°C Volts: 0-10 VDC DC Millivolts: 0-25mV, 0 to 50mV; 10-50mV, 0-5V and 1-5V RTD Excitation: 150 microamps, typical Isolation: Inputs are a common ground signal
Chart Accuracy	Recording: 0.5% of chart span Chart Rotation: ±0.5% of rotation time
Recording	Error: ± 5% of span Repeatability: ± 1%
Communications	RS-485 serial, MODBUS RTU protocol
Approvals	CE, UL, CSA, FM, ISO 9002 registered
Panel Depth	2.5" (64mm); panel protrusion: 1.3" (33mm)
Dimensions	14 x 15 x 3.8" (356 x 356 x 97mm)
Weight	15 lbs (6.8kg)

## Features

- Easy to install and program
- Standard easy to read display saves setup time and shows process value
- Slim/trim housing reduces your panel depth and may be wall mounted
- Wide range of power operation

## Applications



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

## Ordering & Options

### Chart Recorders

Order No.	Pens	Relays
51000015	1	NONE
51100015	2	NONE
51010015	1	1
51120015	2	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.

## Regional Distributor



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The Leader in Water Instrumentation

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