

DATALOGGER WITH PRINTER

MPR4200SP is digital temperature & humidity data logger and digital Chart recorder with mini printer, high accuracy, huge memory capacity, easy operation, to be aimed to display, measure temperature and humidity in various food, pharmaceutical, cold chain transportation etc industry application.

- *Huge memory capacity for more than 1-year continuous memory*
- *LCD display for real time clock, working status, memorized value*
- *Output: Relay Alarm output, Buzzer built in, HA, LA value setting alarming occurs when input signal open or off or value over*
- *RS485, Communication, standard MODBUS-RTU protocol, configurable with HMI, SCADA, OPC serve etc*
- *Various printing mode: online report, history report, daily report*
- *Strong PC software to display data in digital curve, Print and export to excel for further analysis*
- *Real time clock built in designed with recharging battery and circuit; When the power supply off and under battery fully charged, the clock built in can run for more than half a year.*
- *Wide power supply: 12-24VDC*



SPECIFICATIONS

Input	
Input Channel No	2 Channels
Temperature Sensor	NTC sensor, with 5m cable default
Humidity Sensor	Sensirion humidity sensor, Resolution:0.1
Measured Range	T: -50 to 120°C, RH: 0-95%RH
Measured Temperature Accuracy	T: -30 to 20°C, Accuracy: $\pm 0.5^{\circ}\text{C}$
	T: -40 to -20°C, Accuracy: $\pm 1^{\circ}\text{C}$
	T: 20 to 70°C, Accuracy: $\pm 1^{\circ}\text{C}$
	T: Other range, Accuracy: $\pm 2^{\circ}\text{C}$
Humidity Accuracy	Accuracy: $\pm 3\%\text{RH}$
Offset	T: -10.0 to 10.0 , programmable
	RH%: -10.0 to 10.0 , programmable

Out Put	
Relay Type	NO+NC, 10A/250VAC
Alarming type	HA, LA
Alarm value, programable	T:HA: -50 to150°C, LA:-50 to 120°C RH%: HA:0-100, LA:0-100%
Buzzer	Built in buzzer
Communication	RS485 serial port
Function	Read, Write
Isolation	Photoelectrical isolated
Protocol	Standard MODBUS-RTU protocol
Isolation	2400,4800,9600,19200,57600
Address	1-252

Memory	
Memory Capacity	More than 52000 groups' data per channel
	More than 1 year data can be saved
Recording Period	1 minute to 24 hours, can be continuous setting
Memory type	Flash memory
Data transfer Media	8GB USB pen driver, plug and play;
Transferred data file	2MB, all data in recorder transferred
Data File Name	Year/month/Day/Address.dat: 24031801.dat
Full capacity memory	earliest data replaced by newest data
Data Format	Binary format or cannot read or write

Over View	
LCD Size	3.2", color TFT LCD
LCD Resolution	320x240 TFT color LCD
Power Supply	12-24VAC/DC; powered by external power adaptor:90-264VAC,50-60hz
Consumption	15W
Battery Type	3.6V 2500Mah Lithium battery, reserved
Case material	ABS
Mounting	Panel flush mounting
Size//install/Weight	144x144x73mm/131.5*131.5mm/1.8KG
Working ambient	T: -20 to50 deg CH: 0%-95 % (No dew)

Printing

Printing	RS232 printing port
Printing mode	Online report, Historical report, Daily report
Printing interval time	1 minute to 24 hours, programmable
Time Lock	Unlock, lock , programmable
System clock time	Year-Month-Day
Printer Method	Dot Matrix, Ribbon Type
Paper Width	44mm/57mm
Print Width	32mm/48mm
Paper Type	Plain, 44mm/57mm wide, 30mmØ

PC Software

PC version	Window 2000/XP, VISTA, Win7, 8, 10
PC hardware	30MB or more
Installation	Saved in USB pen driver default, Please copy it to your PC directly
PC software 1	Used when USB drive data transfer
Functions	Display the history data in digital& curve
	Export the data as excel formal further
	Print the history data in curve by printer
PC software 2	Used when RS485 communication
Functions	Real time reading, monitoring while memory in pc