

32 CHANNEL DATALOGGER

INTRODUCTION:

MPR5000ST is touch screen universal color paperless recorder, Max 32 channels, high accuracy, universal use, easy operation, to Be aimed to display, measurement the processes parameters such As temperature, humidity, pressure, flow, vibration etc in various Industrial Application.



FEATURES:

- High accuracy: $\pm(0.2\%FS + 1)$ digit, 7" TFT LCD Touch Screen
- Programmable universal input: T.C., RTD, mA, VDC, mV
- Input channels no.: 1, 2, 3, 4, 5, 6....32 channels, optional
- Built in thermocouple automatic cold junction compensation
- Output: Max.16 relay, 24 VDC feeds, retransmission, optional
- RS485 communication port, standard MODBUS-RTU protocol, Ethernet TCP/IP configurable with HMI, SCADA, OPC serve etc.
- Flow totalizes with temperature, pressure compensation
- Match Function: +, -, x, /, average, max, mini
- Powerful Various curve, barograph, digit for different type display
- Strong PC software to display data in digital curve, Print and export to excel for further analysis
- Wide power supply: 100-240VAC; 24VDC

FEATURES:

Input	
Input No.	1, 2,3, 4,5,6.....32, optional
Thermocouple Input	K, J, T, E, R, S, B, N, Wre526, Wre325
RTD Input	Pt100, CU50, CU100; 0-400ohm
Analog Input	4-20mA, 0-10mA, 0-5V, 1-5V, 0-10VDC
mV Input	0–20mV,0-50mV, 0-100mV, 0-500mV
Isolation	photoelectric isolation
Accuracy	± (0.2%FS +1) digit
Resolution	0.1°C when temperature input
Sample time	0.5~1 second per 8 channels, independent
Decimal No.	0-4 programmable; 1 when temperature
T.C. cold compensation	Built- in auto. Compensation
Compensation Tolerance	Max.±1°C
Channel-GND Isolation	1000VAC
Channels 'Isolation	400VAC
Temperature shift	50PPM
CMR Ratio	85-110dB
T.C. wire resistor	Less than 1000Ω
RTD wire resistor	max1000Ω per wire, should same each wire
Inner CPU	32bits ARM CPU, high performance
Hardware watchdog	CPU inner integration for long-term stability

Input Type		Measured Range	Measured Range
RTD	Pt100	-200 to 600°C	>20MΩ
	CU50	-50 to150°C	>20MΩ
	CU100	-50 to150°C	>20MΩ
T.C	K	-50 to 1300°C	>20MΩ
	J	0 to 1000°C	>20MΩ
	T	-200 to 350°C	>20MΩ
	E	0 to 800°C	>20MΩ
	R	-50 to 1700°C	>20MΩ
	S	-50 to 1700°C	>20MΩ
	B	300 to 1800°C	>20MΩ
	N	0 to 1300°C	>20MΩ
	Wre526	0-2300°C	>20MΩ
	Wre325	0-2300°C	>20MΩ
Analog	4-20mA	-20000 to 20000	250 Ω
	0-10mA	-20000 to 20000	500Ω
	0-5VDC	-20000 to 20000	500KΩ
	1-5VDC	-20000 to 20000	500KΩ
	0-10VDC	-20000 to 20000	500KΩ
mV	0-50mV	-20000 to 20000	>20MΩ
	0-100mV	-20000 to 20000	>20MΩ

Memory	
Memory Capacity($\leq$ CH16	90days x Record Interval Time/CH numbers
Memory Capacity($\geq$ CH16	180days x Record Interval Time/CH number
Record interval time	1,2..10...3600seconds, programmable
CH Numbers	1,2,3,4,5,6...32, ordered total channel 'no.s
Memory type	Flash memory
Data transfer Media	8GB USB pen driver; 16G, 32G optional
Transferred data file	$\leq$ CH16: 128MB, $\geq$ CH16: 256MB in recorder
Data File Name	Year/month/Day/Address.dat: 19031801.dat
Full capacity memory	earliest data replaced by newest data
Data Format	Binary format or cannot read or write

Display	
LCD Size	7" color TFT LCD, touch screen
LCD Resolution	640x480 TFT color LCD
Interval time	1-3600 seconds, set flexibly
Data Display Type	Digit, curve, barograph, chart
Background	50,000hours (lifespan)
Screensaver	0-30,000second, set flexibly
Engineer unit	$^{\circ}$ C, %, psi, bar, m ³ /hr, ppm..... programmable
Resolution	32 Bit AD inner, final resolution:16 bit
Display	5 digits; Flow totalize:11 digits

Outputs (Option)	
Relay	Max. 16 outputs, programable
Retransmission	Max.16 channels, 4-20ma, 0-10ma output
Communication	RS485, Ethernet Standard MODBUS-RTU
Printing	RS232 printing port
Flow Totalize	With temperature pressure compensation
Math	+, -, x, /, mini, max, average
Feed	Max. 16 output, 12VDC, 24VDC, max. 125mA

Others	
Power Supply	100-240VAC, 47-63Hz; 24VDC
Consumption	Maximum 25VA (25W)
Insulation	Power to ground (housing) > 1500VAC
Case material	Metal for case and bezel, acrylic panel (ip20)
Mounting	Panel flush mounting
Size/Install/N.W.	180X150X150mm/138X138mm/2.4KG
Working Ambient	T: 0-50 deg CH: 10%-85 % (No dew)