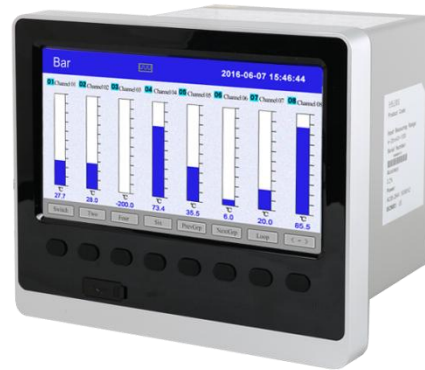# PCPR01 Paperless Recorder

Features

- Up to 48 channels of universal input
- UP to 18 Alarm Output Relays
- With 24V Power distribution Output
- Communication type: RS485, RS232C
- With a USB data transfer interface

Product overview

PCPR01 is featured with outstanding performance and easy operating Function along with high visibility Color LCD display,universal inputs with high speed of sampling rate and accuracy. Measured data is stored into memory and can be analyzed on PC trough communication.

Notes:

1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.

2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.

3 Strictly follow the wiring method for wiring; otherwise it may cause product damage or other potential faults.

Notes:

1 Do not misuse documentation.

2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.

3 Complete installation, operation, and maintenance information is provided in the instructions of the product.

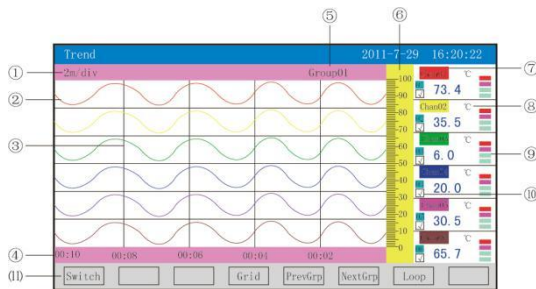4 Misuse of the product may cause danger or personal injury.

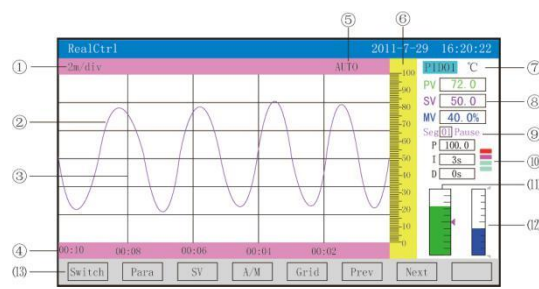| Parameters	
Input signal	Current: 0 ~ 20 mA, 0 ~ 10 mA, 4 ~ 20 mA, 0 ~ 10 mA SQRT, 4 ~ 20 Ma SQRT Voltage: 0 ~ 5 V, 1 ~ 5 V, 0 ~ 10 V, ±5 V, 0 ~ 5 V SQRT, 1 ~ 5 V SQRT, 0 ~ 20 mV, 0 ~ 100 mV, ±20 mV, ±100 mV Thermal resistance: Pt100, Cu50, Cu53, Cu100, BA1, BA2 Linear resistance: 0 ~ 400 Ω Thermocouple: B, S, K, E, T, J, R, N, F2, Wre3-25, Wre5-26
Output signal	Analog output: 4 ~ 20 mA (load resistance ≤ 380 Ω), 0 ~ 20 mA (load resistance ≤ 380 Ω), 0 ~ 10 mA (load resistance ≤ 760 Ω), 1 ~ 5 V (load resistance ≥250 KΩ), 0 ~ 5 V (load resistance ≥250 KΩ), 0 ~ 10 V (load resistance ≥10 KΩ)
	Alarm output: normally open relay contact output, where the contact capacity is 1 A/250 VAC (resistive load) (! Note: Please do not carry load directly in case the load exceeds the contact capacity of relay.)
	Feed output: DC24 V ± 1, load current ≤ 250 mA
	Communication output: RS485/RS232 communication interface, 1,200 ~ 57,600 bps baud rate (able to be set); standard MODBUS RTU communication protocol is adopted; the communication distance of RS-485 can be as long as 1 kilometer; the communication distance of RS-232 can be as long as 15 m; EtherNet communication interface is adopted, where the communication speed is 10 M.
Measurement accuracy	0.2% FS ± 1d
Sampling period	1 s
Setting mode	The button is set in the form of panel soft touch; set values of parameters are locked with passwords and will be saved permanently in case of outage.
Display method	7-inch 800 * 480 dot-matrix widescreen TFT high brightness color graphics and LCD display; LED backlight; with clear pictures and wide visual angle. Display contents can be composed of characters, figures, conditional curves, bar graphs, etc.; through panel button, page turning, forward and backward search of historical data, time scale change of curves, etc. can be realized.
Data backup	Data backup and conversion storage of USB flash disk and SD card are support, where the maximum capacity is 8 GB; FAT and FAT32 formats are supported.
Storage capacity	The capacity of the internal Flash memory is 64 M Byte.
Recording interval	Nine options including 1, 2, 4, 6, 15, 30, 60, 120 and 240 s can be selected.
Display & Operation	Multiple display Function ： choose the display your way
	Use date and time calendar search functions to Review historical data .
	7 inch high brightness color graphics and color LCD (800 * 480pixels)

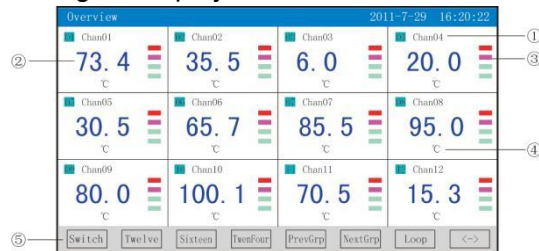|	
Reliability and Security	Dust- and splash-proof front panel
	Power Fail Safeguard:All the data stored in Flash memory, make sure that all the historical data and configuration parameters will not lost when power fail. Real time clock power supply by lithium batteries.
Data Acquisition Software	Software for varieties of tasks : analysis, settings, and acquisition
Power supply	AC 85 ~ 264 V (power supply of the switches), 50/60 Hz;
	DC12 ~ 36 V (power supply of the switches);
Normal operating condition	Temperature：-10 ~ 50℃
	Humidity：10 ~ 90%%RH(without condensation of moisture)

Display

1. Real-time Curve

2. Real-time control

3. Bar Graph
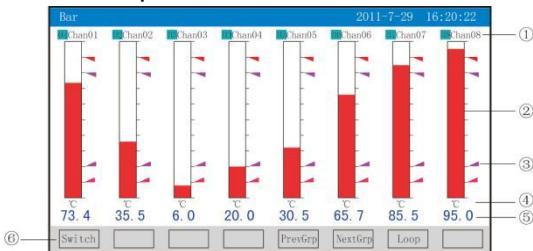
4. Digital Display

5. Historical Curve

6. Alarm List

7. File List

8. Menu for Printing

Storage Function	
Data backup	Data backup and conversion storage of USB flash disk and SD card are support, where the maximum capacity is 8 GB; FAT and FAT32 formats are supported.
Storage capacity	The capacity of the internal Flash memory is 64 M Byte.
Recording interval	Nine options including 1, 2, 4, 6, 15, 30, 60, 120 and 240 s can be selected.
Storage length (continuous record without power-off)	24 days (1 s interval) – 5825 days (240 s interval) Calculation formula: recorded time (day) $$= \frac{64 * 1{,}024 * 1{,}024 * \text{recording interval (S)}}{\text{channel number} * 2 * 24 * 3{,}600}$$ (! Note: For calculation of channel number, the program divides the channel number into five options, namely 4, 8, 16, 32 and 64, and the bigger figure should be regarded as the channel number for calculation in case the channel number of the instrument is between the said two options. For example: If the channel number of the instrument is 12, then 16 should be adopted in the formula.)

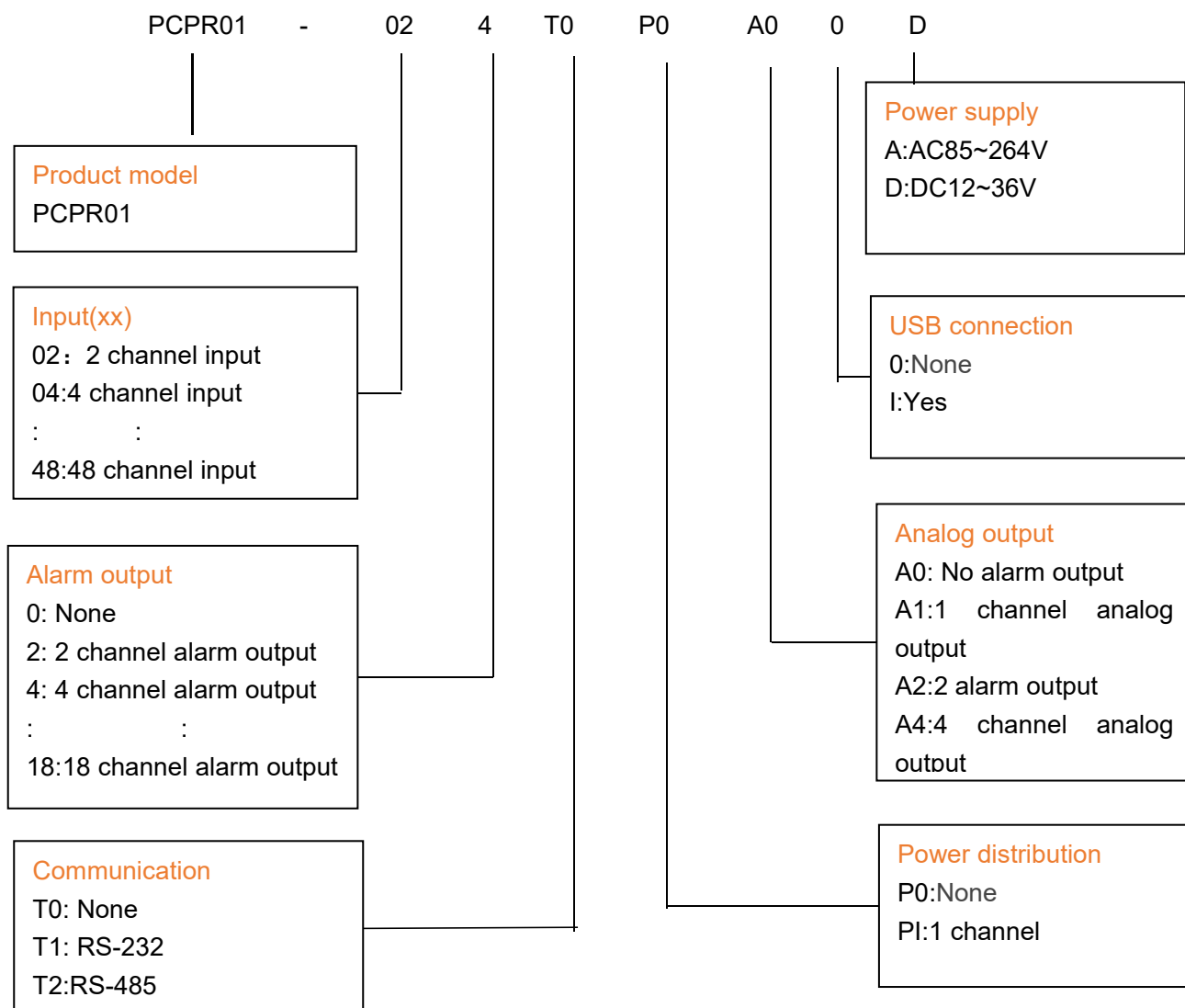| **Alarm Output Function** |
|---|
| Max 18 channel alarm output, normally open relay contact output, where the contact capacity is 1 A/250 VAC (resistive load) |
| (! Note: Please do not carry load directly in case the load exceeds the contact capacity of relay.) |

Communication Function

RS485/RS232 communication interface, 1,200 ~ 57,600 bps baud rate (able to be set); standard MODBUS RTU communication protocol is adopted;

PCPR01 - 02 4 T0 P0 A0 0 D

Product model
PCPR01

Input(xx)
02：2 channel input
04:4 channel input
:   :
48:48 channel input

Alarm output
0: None
2: 2 channel alarm output
4: 4 channel alarm output
:   :
18:18 channel alarm output

Communication
T0: None
T1: RS-232
T2:RS-485

Power supply
A:AC85~264V
D:DC12~36V

USB connection
0:None
I:Yes

Analog output
A0: No alarm output
A1:1 channel analog output
A2:2 alarm output
A4:4 channel analog output

Power distribution
P0:None
PI:1 channel

Example:PCPR01 - 02 4 T0 P0 A0 0 D

Product model: PCPR01. 02:2 channel input. 4:4 channel alarm output.   T0: No Communication. P0: No Power distribution.   A0:No alarm output.   0:No USB connection.   D: DC12~36V Power supply.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

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