

PR720 series Industrial Digital Thermometer



The PR720 series industrial digital thermometer can be connected to a variety of thermocouple or resistance thermometer sensors, and the sensor data can be corrected on the thermometer without the use of other peripherals. They are suitable for industrial or laboratory test environments where sensors need to be replaced frequently and the requirements for test results are high.

● Products Features

1. Special PRT sensor with correction values

The PR720 series thermometer is connected to the sensor in a single-wire communication mode. The correction value is automatically loaded without any additional settings when the thermometer is powered on. For the relatively short life of the thermocouple sensor, we offer an intermediate connector (PR7201) with a reference junction compensation function. When the sensor needs to be replaced, the user can set the correction value of the new sensor and save it to the intermediate connector (PR7201).



2. Various temperature sensors are supported

In order to meet different application requirements, PR720 series thermometer support many types of thermocouples and PRTs, including S, N, K, T, PT100, PT200 and PT1000. All PRTs are aged and calibrated before being delivered to the customer.

3. Wireless communication function

The PR720A has a wireless communication function, which uses multiple PR720A and combined with the PC software to perform wireless temperature uniformity testing, which is more flexible and convenient than the traditional application notes.



4. Low power, portable design

The PR720 series is much smaller than a general secondary instrument and is ideal for factory use. With a low-power design, the PR720 can operate for 1400 hours with three AAA batteries.

5. Zero-point mark function

This function marks the current temperature as zero, and then the obtained temperature value is the temperature value relative to this point.

6. Over temperature reminder function

The screen flashes when the PR720's temperature exceeds the limit.

● Basic parameters

Operating temperature	-5°C ~ 45°C
Working Humidity	0 ~ 80% , Non condensing
Battery type	3 AAA alkaline batteries
Electronics dimensions (H x W x D)	104*46*30mm
Weight (including battery)	120g
Calibration period	2 years
Preheating time	Preheat one minute
Communication	2.4G wireless(PR720A) ; RS232(PR720B)
Connector life	≥5000 insertions
Time of duration	Turn off wireless communications and backlight≥1400 hours Turn on wireless communications and auto send ≥700 hours

● Temperature sensor selection table

No.	Model	Temp. Range (°C)	Probe Size (mm)	Length of wire	Sensor type	Initial indication error≤°C
1	ADPG1400403	-40~200	Φ4*40	3.0 m	A class PT1000	0.1+0.02%RD
2	ADPF1104001	-40~200	Φ1.5*400	1.0 m		0.1+0.02%RD
3	ADPG2400403	-60~300	Φ4*40	3.0 m		0.1+0.02%RD
4	ADPF2504001	-60~300	Φ5*400	1.0 m		0.1+0.02%RD
5	ADPG0605001	-200~300	Φ6*500	1.5 m	A class PT100	0.15+0.05%RD
6	ADPG3500503	RT~500	Φ5*50	3.0 m	A class PT1000	0.1+0.025%RD
7	ADPF3505001	RT~500	Φ5*500	1.5 m		0.1+0.025%RD
8	APPG5605001	RT~800	Φ6*500	1.5 m		0.2+0.07%RD
9	NNPK6120200	RT~1050	Φ1.5*2000	/	Type N thermocouple	0.3+0.1%RD
10	NNPK6150200	RT~1050	Φ1.5*5000	/		0.3+0.1%RD
11	NNPK6220200	RT~1050	Φ2*2000	/		0.3+0.1%RD
12	NNPK6250200	RT~1050	Φ2*5000	/		0.3+0.1%RD
13	NNPK8220200	RT~1250	Φ2*2000	/		0.3+0.1%RD
14	NNPK8250200	RT~1250	Φ2*5000	/		0.3+0.1%RD