

# DAQ9000 Temperature Data Acquisition

(7 inch touch screen, Up to 200 channels, Thermocouple, Thermal resistance)

## Key Features

- Support acquisition of multiple thermocouple and thermal resistance
- 8-64 channels, support extended to 200 channels
- 1S/0.1S high-speed sampling
- 70MB/2GB (optional) internal storage
- 8-slot mainframes, optional 7 functional plug-in modules
- PC and mobile phone remote monitoring, free IOT platform
- 7 inch color touch screen with button operation
- RS232, RS485, Ethernet communication interface and USB ports



## Overview

Saluki DAQ9000 Portable Temperature Data Acquisition integrates the data acquisition, display, built-in data storage, and network connectivity. The single device has 8 to 64 channels, even up to 200 channels of simultaneous acquisition. DAQ9000 is special for acquisition of temperature signal. It also can be easily remotely transmitted wirelessly to PC & mobile phone monitoring.

The DAQ9000 is an eight-slot mainframe with seven optional plug-in modules to facilitate future channel expansion and function enhancement. The portable design is suitable for industrial and laboratory applications.

## Technical Specifications

Model	DAQ9000
Input Signals	Thermocouple: K, R, B, N, E, T, J, S, WRE5-26, WRE3-25 Thermal resistance: pt1000, pt100, cu50
Number of Channels	1 - 200
Power Consumption	≤ 25 VA
Storage Interval	Self-setting from 1s to 19999s

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<b>Internal Memory</b>	70MB, or optional 2GB
<b>Acquisition Mode</b>	Cyclic
<b>Alarm</b>	High & low limit, 4 alarms per channel
<b>Relay</b>	8-channel NO&NC relay 250V 5A
<b>Power Supply</b>	AC 85V-265V, DC 12V-25V
<b>Battery Module</b>	12V, 4000mAh lithium battery, Output voltage DC 12.6V
<b>Distribution Output</b>	1-channel 24VDC (optional multi-channel 24V or 5VDC output)
<b>Communication</b>	Standard Ethernet, RS485, RS232 (optional USB/4G/WIFI wirelss), Standard Modbus TCP/RTU protocol
<b>Temperature</b>	Operating: -20°C to +50°C, Storage: 0°C to +50°C
<b>Humidity</b>	Operating: 0 - 90% RH, Storage: 0 - 85% RH (non-condensing)
<b>Body Material</b>	Fireproof ABS
<b>Dimension</b>	288 × 288 × 200 mm
<b>Weight</b>	About 3-4kg (depends on the number of modules)

## Optional Modules

### ➤ *Function Description*

Module	P/N	Description	Marks
<b>Universal Signal Input Module</b>	1708P	Temperature K, T, J, E, S, B, R, N, WRe3, WRe5 thermocouple, PT1000, PT100, CU50 platinum resistance	8 channel signal input

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Module	P/N	Description	Marks
<b>0.1S Fast Acquisition Module</b>	1708Q	Temperature K, T, J, E, S, B, R, N, WRe3, WRe5 thermocouple (8 channel can only be used at the same time of the same type)	8 channel signal input
<b>Relay Alarm Output Module</b>	1708J	Adopt 8 NONC relay contact output. Each contact can be matched with any channel, the maximum current is 5A.	8 channel signal input
<b>Lithium Battery Module</b>	1701	Adopt 12V/4000mAh high-capacity polymer lithium battery pack. One battery module can be used for 8 channel DAQ to work continuously for 10 hours. Multiple battery modules can be used in one DAQ.	DC 12.6V output
<b>4G Wireless Terminal DTU Module</b>	1702V4	Support 4G wireless data upload cloud platform	(Customized)
<b>WiFi Wireless Terminal DTU Module</b>	1702V3	Support WiFi wireless data upload cloud platform	(Customized)
<b>NTC Temperature Sensor Acquisition Module</b>	1708NTC	Can be connected to 8 or 16 NTC temperature sensors. (3600,3950,3425,3455,3435 various specifications)	8 or 16 channel (customized)

## ➤ Measurement Range

Type	Range	Accuracy	Resolution
K	-60°C to +1372°C	±(0.05% rdg. +0.5°C)	0.01°C

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Type	Range	Accuracy	Resolution
J	-100°C to +1200°C	$\pm(0.05\% \text{ rdg. } +0.5^\circ\text{C}) \leq 0^\circ\text{C}$ $\pm(0.15\% \text{ rdg. } +0.5^\circ\text{C})$	0.01°C
E	-100°C to +1000°C	$\pm(0.05\% \text{ rdg. } +0.5^\circ\text{C}) \leq 0^\circ\text{C}$ $\pm(0.15\% \text{ rdg. } +0.5^\circ\text{C})$	0.01°C
T	-100°C to +400°C	$\pm(0.05\% \text{ rdg. } +0.5^\circ\text{C}) \leq 0^\circ\text{C}$ $\pm(0.15\% \text{ rdg. } +0.5^\circ\text{C})$	0.01°C
N	-100°C to +1300°C	$\pm(0.05\% \text{ rdg. } +0.7^\circ\text{C}) \leq 0^\circ\text{C}$ $\pm(0.3\% \text{ rdg. } +0.7^\circ\text{C})$	0.01°C
W	0°C to +1500°C	$\pm 0.05\% \text{ of rdg } \pm 0.8^\circ\text{C}$	0.01°C
	+1500°C to +2315°C	$\pm 0.05\% \text{ of rdg } \pm 1.1^\circ\text{C}$	0.01°C
R	+400°C to +800°C	$\pm 0.2\% \text{ rdg. } +2.0^\circ\text{C}$	0.01°C
	+800°C to +1768°C	$\pm 0.05\% \text{ of rdg } \pm 1.0^\circ\text{C}$	0.01°C
S	+800°C to +1768°C	$\pm(0.05\% \text{ rdg. } +1.0^\circ\text{C})$	0.01°C
	+400°C to +800°C	$\pm(0.2\% \text{ rdg. } +2.0^\circ\text{C})$	0.01°C
B	+800°C to +1820°C	$\pm(0.05\% \text{ rdg. } +1.0^\circ\text{C})$	0.01°C
	+400°C to +800°C	$\pm(0.2\% \text{ rdg. } +2.5^\circ\text{C})$	0.01°C
pt100	-200°C to +660°C	$\pm(0.05\% \text{ rdg. } +0.3^\circ\text{C})$	0.01°C
pt1000	-200°C to +300°C	$\pm(0.05\% \text{ rdg. } +0.2^\circ\text{C})$	0.01°C
cu50	-50°C to +150°C	$\pm(0.05\% \text{ rdg. } +0.3^\circ\text{C})$	0.01°C

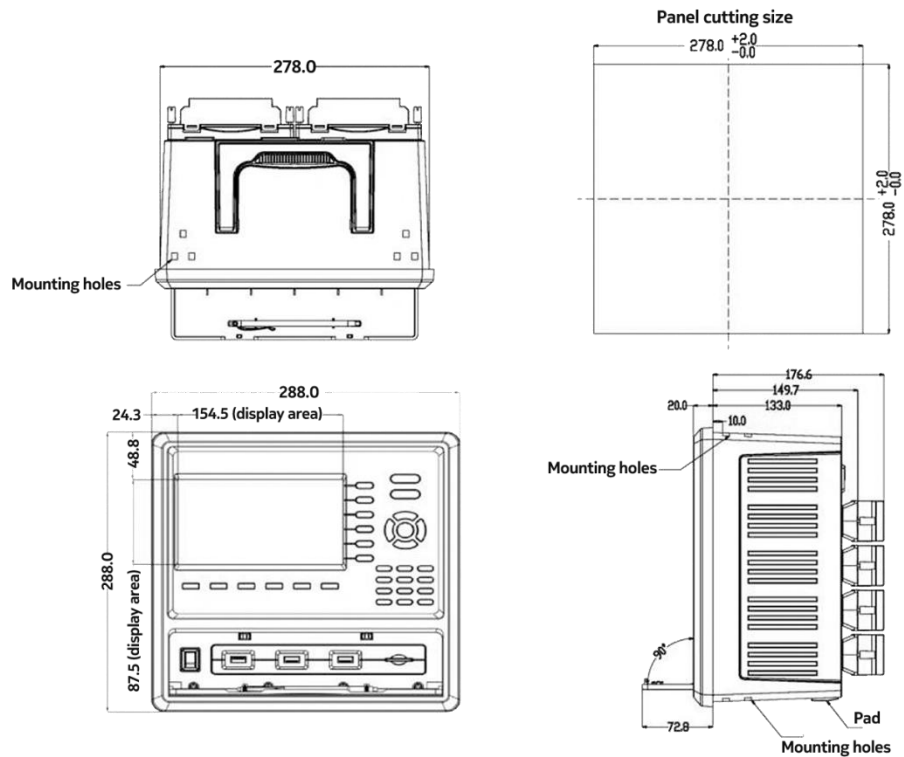
**Note:**

- Warm-up time: more than 30 minutes. Thermocouple measurement includes cold junction compensation accuracy.
- Standard operating state: temperature 25±3°C, humidity 55±10%RH.
- Environmental adaptability, the operation temperature is -20°C to +50°C.
- The operation humidity is 0 to 90%RH (no condensation).

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## Physical Dimensions



**Note:** Information will conduct the necessary updates, the contents of this document are subject to change without notice.