DAQ700 Data Acquisition

(7 inch touch screen, Up to 200 channels, 4-20mA/0-20mA, 0-5V/0-10V)

Key Features



- Support multiple signal input: Voltage, Current, Power, Frequency, Pressure, Temperature, Humidity, Flow, Liquid level, Vibration, Rotating speed etc.
- 8-64 channels, support extended to 200 channels
- 1S/0.1S high-speed sampling
- 70MB/2GB (optional) internal storage
- 8-slot mainframes, optional 13 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 DAQ700 Portable 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. DAQ700 can measure multiple electrical or physical parameters. It also can be easily remotely transmitted wirelessly to PC & mobile phone monitoring.

The DAQ700 is an eight-slot mainframe with thirteen 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	DAQ700
Input Signals	Thermocouple: K, R, B, N, E, T, J, S, WRE5-26, WRE3-25 Thermal resistance: pt1000, pt100, cu50 Current (DC): 4-20mA, 0-20mA Voltage (DC): 0-5V, 0-10V, ±20mV, ±100mV

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Number of Channels	1 - 200
Power Consumption	≤ 25 VA
Storage Interval	Self-setting from 1s to 19999s
Internal Memory	70MB, or optional 2GB
Acquisition Mode	Cyclic
Alarm	High & low limit, 4 alarms per channel
Relay	8-channel NO&NC relay 250V 2A
Power Supply	AC 85V-265V, DC 12V-25V
Battery Module	12V, 4000mAh lithium battery, Output voltage DC 12.6V
Distribution Output	1-channel 24VDC (optional multi-channel 24V or 5VDC output)
Communication	Standard Ethernet, RS485, RS232 (optional USB/4G/WIFI wirelss), Standard Modbus TCP/RTU protocol
Temperature	Operating: -20°C to +50°C, Storage: 0°C to +50°C
Humidity	Operating: 0 - 90% RH, Storage: 0 - 85% RH (non-condensing)
Dimension	288 × 288 × 200 mm

Optional Modules

➢ *Function Description*

Module	P/N	Description	Marks
Universal Signal Input Module	1708P	Temperature K, T, J, E, S, B, R, N, WRe3, WRe5 thermocouple, PT1000, PT100 platinum resistance, DC voltage 0-5V, 0-10V, ±100mV, DC current 4-20mA	8 channel signal input

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Module	P/N	Description	Marks
0.1S Fast Acquisition Module	1708Q	Temperature K, T, J, E, S, B, R, N, WRe3, WRe5 thermocouple, DC voltage 0-5V, 0-10V, ±100mV, DC current 4-20mA (8 channel can only be used at the same time of the same type)	8 channel signal input
Relay Alarm Output Module	1708J	Adopt 8 NONC relay contact output. Each contact can be matched with any channel, the maximum current is 5A.	8 channel signal input
Lithium Battery Module	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
Switch Input Module	1708K	8-channel switch signal input module, Wet node, 5-24V	8 channel signal input
DC Current Acquisition Module	1748	Maximum 0-10A acquisition (current range can be customized), Accuracy 0.5%, Resolution 1mA	8 channel signal input
DC Voltage Acquisition Module	1758	Maximum 0-120V acquisition (current range can be customized), Accuracy 0.5%, Resolution 1mV	8 channel signal input
AC Power Electric Parameter Test Module	1706AC	Single-phase AC power electric energy parameter test record can be shared with other modules such as temperature in a DAQ host.	Current, Voltage, Power, Frequency, Electric energy

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Module	P/N	Description	Marks
AC & DC Power Electric Parameter Test Module	1706ADC	Voltage range: 5-600V, Current range: 10mA-20A, Frequency range: 45-400Hz	AC and DC current, Voltage, Power, Frequency, Electric energy
4G Wireless Terminal DTU Module	1702V4	Support 4G wireless data upload cloud platform	(Customized)
WiFi Wireless Terminal DTU Module	1702V3	Support WiFi wireless data upload cloud platform	(Customized)
Temperature & Humidity Acquisition Module	1728	Can be connected to 4pcs 2305 temperature and humidity probes or 8pcs 2305 single humidity probes with an accuracy of ±3%. Can be connected to 8pcs DS18B20 temperature sensors with an accuracy of ±3%. (-20 to 120°C).	8 channel signal input
NTC Temperature Sensor Acquisition Module	1708NTC	Can be connected to 8 or 16 NTC temperature sensors.	8 or 16 channel (customized)

➢ *Measurement Range*

Type	Range	Accuracy	Resolution
0 - 10V	-0.5V to +11.000V	0.001% F.S. ±0.0001V	0.01V
0 - 5V	-0.5V to +5.500V	0.002% F.S. ±0.0001V	0.01V
±20mV	-21mV to +21mV	0.0025% F.S. ±0.001mV	0.01mV
±100mV	-110.0mV to +110.0mV	0.0005% F.S. ±0.001mV	0.01mV

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Type	Range	Accuracy	Resolution
4-20mA	+3mA to +21.00mA	0.005% F.S. ±0.001mA	0.01mA
K	-60°C to +1372°C	±(0.05% rdg. +0.5°C)	0.01°C
J	-100°C to +1200°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15% rdg. +0.5°C)	0.01°C
E	-100°C to +1000°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15% rdg. +0.5°C)	0.01°C
T	-100°C to +400°C	±(0.05% rdg. +0.5°C)≤0°C ±(0.15% rdg. +0.5°C)	0.01°C
N	-100°C to +1300°C	±(0.05% rdg. +0.7°C)≤0°C ±(0.3% rdg. +0.7°C)	0.01°C
w	0°C to +1500°C	±0.05%of rdg ±0.8°C	0.01°C
	+1500°C to +2315°C	±0.05%of rdg ±1.1°C	0.01°C
R	+400°C to +800°C	±0.2% rdg. +2.0°C	0.01°C
	+800°C to +1768°C	±0.05%of rdg ±1.0°C	0.01°C
S	+800°C to +1768°C	±(0.05% rdg. +1.0°C)	0.01°C
	+400°C to +800°C	±(0.2% rdg. +2.0°C)	0.01°C
B	+800°C to +1820°C	±(0.05% rdg. +1.0°C)	0.01°C
	+400°C to +800°C	±(0.2% rdg. +2.5°C)	0.01°C
pt100	-200°C to +660°C	±(0.05% rdg. +0.3°C)	0.01°C
pt1000	-200°C to +300°C	±(0.05% rdg. +0.2°C)	0.01°C
cu50	-50°C to +150°C	±(0.05% rdg. +0.3°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).

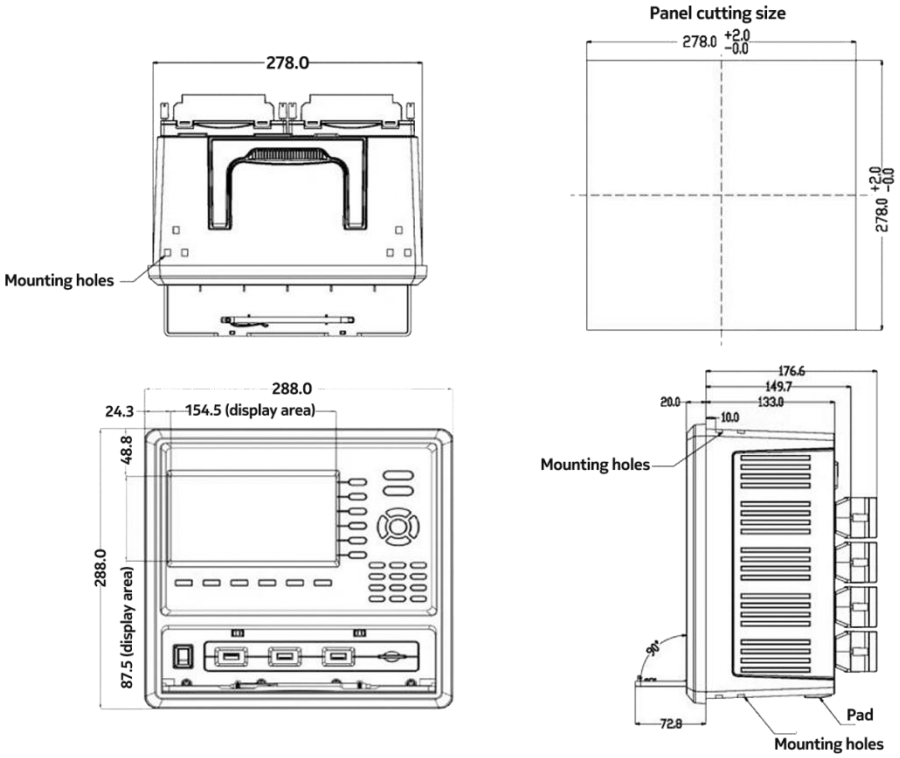
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Physical Dimensions



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

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