

DAQ Modules Specifications

Module description	Type	Speed (ch/sec)	Max volts	Max amps	Bandwidth	Thermal offset	Comments
DAQ-900 20 ch Multiplexer	2-wire solid-state (4-wire selectable)	450	120V		10MHz	< 4 μ V	Built-in cold junction reference
DAQ-901 20 ch Multiplexer + 2 ch current	2-wire armature (4-wire selectable)	80	300V	1A	10MHz	< 4 μ V	Built-in cold junction reference 2 additional current channels (22 total)
DAQ-903 40 ch Single-Ended Mux	1-wire armature (common low)	80	300V		10MHz	< 1 μ V	Built-in cold junction reference No four-wire measurements
DAQ-904 4 x 8 Matrix	2-wire armature		300V	1A	10MHz	< 1 μ V	
DAQ-909 8 ch HV Multiplexer + 2 ch current	2-wire armature (4-wire selectable)	60	DC 600V AC 400V	2A	10MHz	< 4 μ V	Built-in cold junction reference 2 additional current channels (10 total)

Internal DMM measurement functions supported

	DAQ-900	DAQ-901	DAQ-903	DAQ-904	DAQ-909
AC/DC Voltage	√ ^{2,3}	√	√		√
AC/DC Current		√			√
Freq./Period	√	√	√		√
2Wire Resistance	√ ¹	√	√		√
4Wire Resistance	√ ¹	√			√
Thermocouple	√	√			√
2Wire RTD		√	√		√
4Wire RTD		√			√
Transistor		√	√		√
Capacitance		√	√		√

1. For the measurement of 100 Ω and 1 k Ω resistance ranges, it is recommended to use 4-wire resistance. The maximum resistance range of DAQ-900 is 1 M Ω .

2. When measuring AC voltage, the input impedance will decrease with frequency. A source impedance of 5 Ω or less will maintain specification over frequency. A source impedance of 50 Ω or less will maintain specification in the 5 kHz range.

3. For DC voltage measurement, if the integration time is short and the source impedance is high, more stabilization time may be required.

