

DAM6018

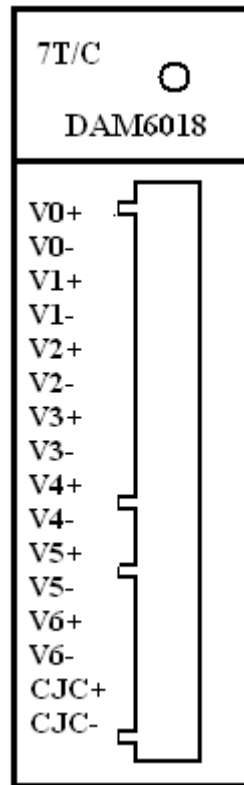
User's Manual



Beijing ART Technology Development Co., Ltd.

DAM6018

◆ Terminal Distribution



◆ Feature

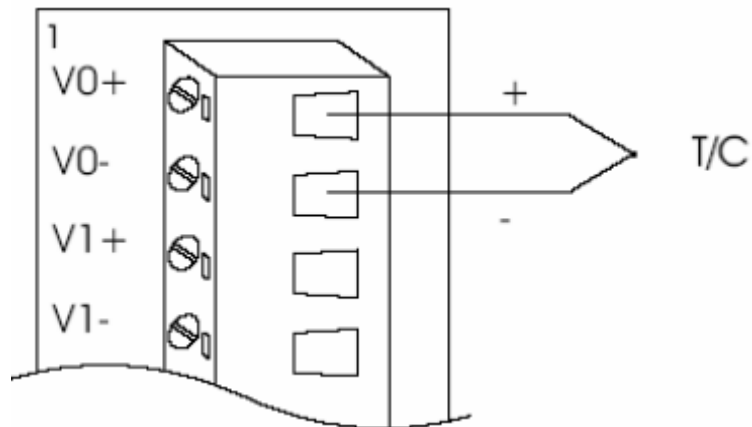
7-ch Thermocouple/Analog Input Module

- 16-bit resolution
- 7 differential inputs
- Input Signal Type: T/C, mV, V or mA (software configuration)
- Input Signal Range: $\pm 15\text{mV}$, $\pm 50\text{mV}$, $\pm 100\text{mV}$, $\pm 500\text{mV}$, $\pm 1\text{V}$, $\pm 2.5\text{V}$, $\pm 20\text{mA}$
- 3000V DC isolation
- External cold junction compensation
- Add Cu50 thermal resistance between the CJC+ and CJC- as cold junction compensation
- Sampling Rate: 10Hz
- Input Impedance: $2\text{M}\Omega$
- Accuracy: $\pm 0.1\%$
- Full-Scale Drift: $\pm 25\text{ppm}/^\circ\text{C}$
- Zero Drift: $\pm 0.5\mu\text{V}/^\circ\text{C}$
- CMR @ 50/60Hz: 150dB
- NMR @ 50/60Hz: 98dB
- Power Consumption: 1.2W (+5V power supply)

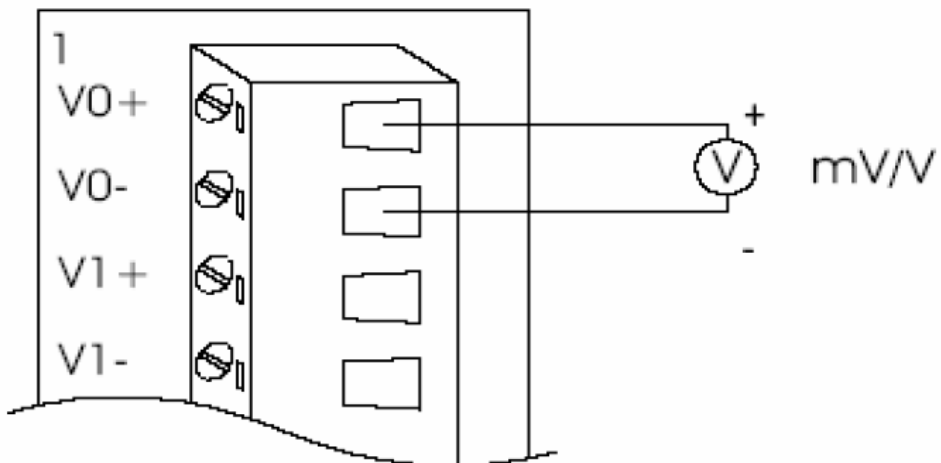
➤ T/C Type and Temperature Range

- J 0°C ~ 1200°C
- K 0°C ~ 1300°C
- T -200°C ~ 400°C
- E 0°C ~ 1,000°C
- R 500°C ~ 1750°C
- S 500°C ~ 1768°C
- B 500°C ~ 1800°C
- N 0°C ~ 1300°C
- C 0°C ~ 2090°C
- WRe5-WRe26 0°C ~ 2300°C

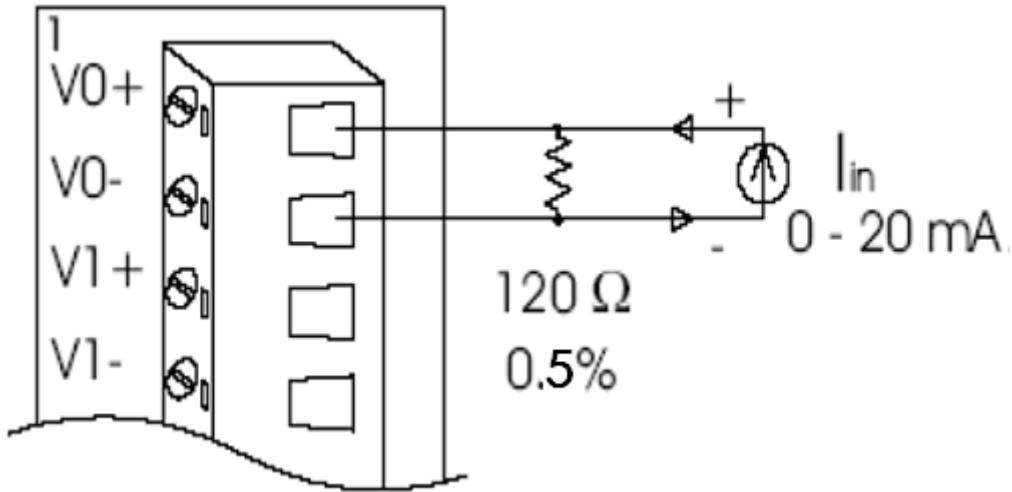
◆ Wiring



Thermocouple Wiring



Voltage Wiring (external voltage: ±15mV, ±50mV, ±100mV, ±500mV, ±1V, ±2.5V)



Current wiring (the jumper needs to be shorted, the external voltage: 0 ~ 2.4V)

◆ Code Configuration Table

Analog input range code table

Signal Type	Range	Code
mV、V	±15mV	01
	±50mV	02
	±100mV	03
	±500mV	05
	±1V	06
	±2.5V	07
mA	±20mA	0A
T/C	J(0°C ~ 1200°C)	10
	K(0°C ~ 1300°C)	11
	T(0°C ~ 400°C)	12
	E(0°C ~ 1000°C)	13
	R(0°C ~ 1700°C)	14
	S(0°C ~ 1768°C)	15
	B(0°C ~ 1800°C)	16
	N(0°C ~ 1300°C)	17
	C(0°C ~ 2090°C)	18
W(0°C ~ 2310°C)	19	