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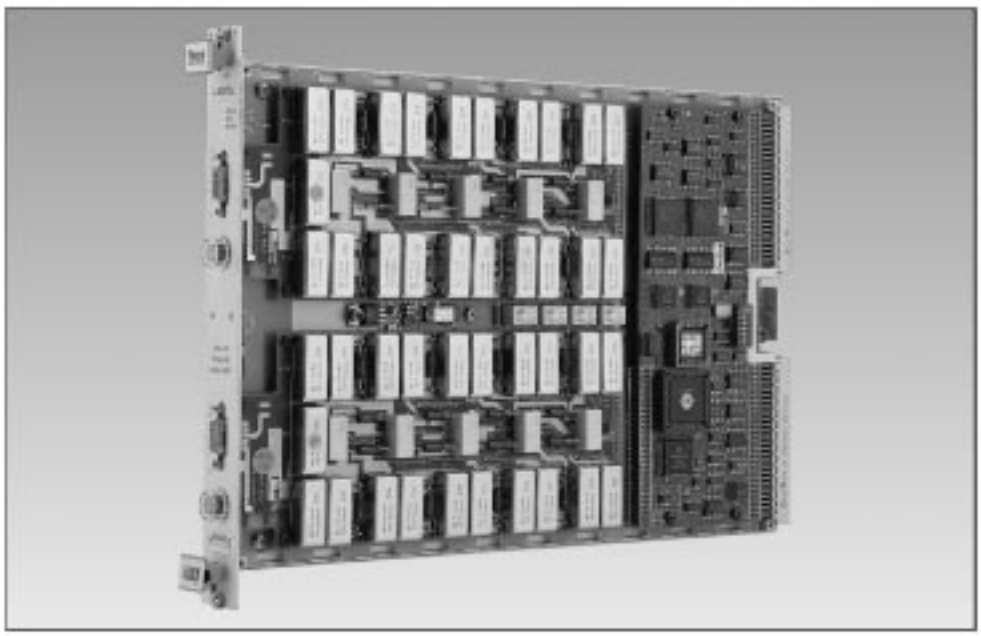
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Resistance Module Model 4072/4072A/4073



- **Fully Programmable Dual Channels**
- **4 Decades per Channel**
- **Resistances Available from 0.1Ω to 999.9kΩ**
- **0.01% Resolution**
- **Built-in Self Test**
- **Up to 3 Watts of Power Dissipation**

The 4072, 4072A and 4073 are dual channel programmable resistance modules available in 0.015%, 0.05% or 0.1% accuracy configurations and with up to 3 Watts of power dissipation. Each 4 decade channel is independently programmed with maximum resistance values ranging from 1kΩ to 1MΩ.

These single-slot modules offer trigger capability from the VXIbus TTLTRG lines and are SCPI compatible for easy programming. LabWindows/CVI, LabVIEW and VXI*plug&play* drivers are also available with soft front panels to ease program development and instrument set-up.

Applications for these modules include process control and industrial measurement. For example, the precision output can be used to digitally control a potentiometer in a calibration or verification procedure. Temperature and other sensors can be simulated in cases where inputs must be tested or measured. When coupled with a digital voltmeter, current can be measured with a high degree of accuracy by measuring the voltage across the 4072/4072A/4073's precision resistance.

Configuration
The 4072 and 4073 are available with either one or two channels, in any combination of four ranges. The 4072A is available with 1kΩ and 10kΩranges.

For your local Racal Instruments Sales Office see page 173.

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4072/3 Specifications

OUTPUT CHARACTERISTICS

Number of Channels
1 or 2

Resolution
4 digits (0.01% of range)

Input Impedance (23°C)
100MΩ

Accuracy (23°C ± 3°C)
4072: ±(0.015%+200mΩ)
4072A: ±(0.05%+200mΩ)
4073: ±(0.1%+800mΩ)

Resistance Ranges

Range	Resistance Range	Resolution
1	0-999.9Ω	0.1Ω
2	0-9999Ω	1Ω
3*	0-99.99kΩ	10Ω
4*	0-999.9kΩ	100Ω

* Not available on 4072A

Max. Power Dissipation (23°C)
4072 (>1Ω): 1.1Watts
4072 (<1Ω): 0.5Watts
4072A: 3Watts
4073 (>2Ω): 3Watts
4073 (<2Ω): 1Watt

Maximum Current
1A

Maximum Voltage
200VDC/VAC (150V for 4072A)

Temperature Coefficient
4072/3: 10ppm/° C
4072A (>10Ω): 20ppm/° C
(<10Ω): 50ppm/° C

Long-Term Stability (70°C)
4072: 0.002% (½W, 2000hr)
4072A: 0.003% (1W, 2000hr)
4073: 0.005% (½W, 1000hr)

TRIGGERING CHARACTERISTICS

Source
TTLTrg0-7, *TRG (Word Serial)

Modes
IMMediate: Trigger immediately.
ECOunt: Number of trigger events to be counted before a trigger occurs.
COUNt: Number of triggers to occur per trigger event.

FRONT PANEL I/O

Outputs
Channel 1, 2: 9 pin D-sub, female

Fuses
Channel 1,2: 1A (front panel serviceable)

VXIbus INTERFACE DATA

(Single-slot, C-sized, VXIbus Rev. 1.4)

Drivers
LabVIEW, LabWindows/CVI, VXI*plug&play* (WIN, WIN95, WIN NT Frameworks)

Native Language
SCPI

Backplane Signal Support
TTLTrg0-7: Trigger Event Input, Sync Output

Self-test
99.8% coverage @ 25° C

Status Lights
Red: Failed
Green: Running Self-test
Green: Access

Cooling
4.0l/s @ 0.5mm H_2O

Peak Current & Power Consumption

	+24	+12	+5	-12
I_{Pm} (A)	1.05	0.15	1.43	0.15
I_{Dm} (A)	0.13	0.05	0.25	0.05

ENVIRONMENTAL

Temperature
Operating: 0° C-50° C

Weight
5.5lb. (2.5kg)

EMC (Council Directive 89/336/EEC)
EN55022-B, EN50082-1

Safety (Low Voltage Directive 73/23/EEC)
EN6010-1, IEC1010-1, UL3111-1, CSA 22.2#1010

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

ORDERING INFORMATION

Model	Description	Part Number
4072-X-X	Programmable Resistance Module 0.015, 1W	33-1030-XX00
4072A-X-X	Programmable Resistance Module, 0.05% Accy, 3W	33-1031-XX00
4073-X-X	Programmable Resistance Module, 0.1% Accy, 3W	33-1040-XX00
XX indicates the ranges required (between 1X4) X=N if not fitted		

WORLDWIDE SUPPORT

http://www.racalinst.com

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

VXI plug&play

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