

Modmux Modules

- **Monitoring of Multiple Temperature Inputs**
- **RS485 Output with Modbus Protocol**
- **Compatible with ChromaSoft SpecView**
- **6 RTD Input Model**
- **8 TC Input Models**
- **DIN Rail Mounting**



Specifications:

Digital Communications

Protocol:	Modbus
Addresses:	0-127
Baud Rate:	9600 or 19200 (dip switch selectable)
Interface:	RS485
Response Time:	<50ms

Hardware

DIN Rail Mount	
11 pin relay bases on rear	
18 Way screw connector on front	
Dimensions:	1.6"(40mm) W x 2.9"(75mm) H x 4.1"(105mm) deep

Electrical

Power supply:	10-24 VDC
Isolation:	1000vrms between field and logic
RTD Module:	6 channels 2 or 3 wire 100Ω PT or 120ΩNi RTDs
Line resistance:	100 ohms
Thermocouple Module:	8 channels Isolated or non-isolated TCs
Isolation:	350V peak between each TC input (isolated units only)
CJC error:	+/- 0.5°C
Drift	100ppm/typical
Upscale or downscale burnout	(dipswitch selectable)

Description:

Modmux Modules consist of stand-alone temperature modules connected together on a RS485 two wire multidrop network using the Modbus Protocol. Temperature modules available are 6 channel RTD or 8 channel Thermocouple. Using ChromaSoft SpecView Software, Modmux module data can be logged or trended along with data from other Chromalox Controllers. The data can be used

for simple and complex strategies that incorporate data acquisition, alarm management, process monitoring, or profiling temperature variations. Modmux modules are simple to install on a standard 11 pin DIN rail mount relay base. Setup is easy with easy to access terminals and dip switches for the address and baud rate.

RTD	Range	Accuracy
1 PT100 (100ΩPLt)	-200.0 to 850.0°C	0.3°C
2 Ni120 (120ΩNi)	-80.0 to 320.0°C	0.3°C

TC	Type	Range	Accuracy
1	J	-200 to 760°C	0.2°C
2	K	-200 to 1370°C	0.3°C
3	E	0 to 600°C	0.1°C
4	T	-200 to 400°C	0.3°C
5	N	0-1300°C	0.3°C
6	B	400 to 1820°C	0.5°C
7	S	-50 to 1767°C	0.6°C
8	R	-50 to 1767°C	0.7°C
9	mV	0 to 50mV	0.1%
10	C	0 to 2315.5°C	0.7°C
11	D	0-to 2315.5°C	0.7°C
12	g	0-to 2315.5°C	0.9°C

Resolution 0.1C for both RTD and TC

Part Number	Description	PCN	Stock
MM6RTD	6 channel RTD input	338001	NS
MM8TC	8 channel Thermocouple Input	338060	NS
MM8TCISO	8 channel Isolated Thermocouple Input	338079	NS