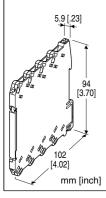
Remote I/O R6 Series

THERMOCOUPLE INPUT MODULE

(high-accuracy, 2 points, Euro terminal)

Functions & Features

 Accepts direct input from an thermocouple and provides an isolated, linearized DC signal compact size remote I/O module



MODEL: R6D-TS2A[1]

ORDERING INFORMATION

Code number: R6D-TS2A[1]
 Specify a code from below for [1].
 (e.g. R6D-TS2A/Q)

• Specify the specification for option code /Q (e.g. /C01)

[1] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to our web site.)

/C01: Silicone coating /C02: Polyurethane coating

RELATED PRODUCTS

• PC configurator software (model: R6CON)

Downloadable at our web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

GENERAL SPECIFICATIONS

Connection

Internal bus: Via the Installation Base (model: R6D-BS)

Input: Euro terminal block (torque 0.3 N·m)

(Applicable wire size: 0.2 to 2.5 mm², stripped length 8

mm)

Internal power: Via the Installation Base (model: R6D-BS)

Housing material: Flame-resistant resin (black)

Isolation: Input 1 to input 2 to internal bus or internal power

Zero adjustments: PC programming **Span adjustments**: PC programming

Input type: Selectable with the side DIP SW or PC

programming

Burnout detection: Upscale or downscale selectable with the

side DIP SW or PC programming

Linearization: Standard

Cold junction compensation: CJC sensor attached to the

input terminals

Module address: Selectable with DIP and rotary switches on

the side

Configuration mode: With DIP switches on the side panel **Power indicator**: Green LED: Refer to the istruction manual

for details.

Status indicator: Bi-color (red/green) LED; Refer to the instruction manual for details.

INPUT SPECIFICATIONS

Thermocouple: K, E, J, T, B, R, S, C, N, U, L, P, PR

Input resistance: 30 k Ω min. Burnout sensing: $\leq 0.1 \ \mu A$

USABLE RANGE (°C)	CONFORMANCE RANGE (°C)
-272 to +1472 -272 to +1100	-150 to +1370 -170 to +1000
	-180 to +1200 -170 to +400
24 to 1920	1000 to 1760
-100 to +1860	380 to 1760
-100 to +1860 -52 to +2416	400 to 1760 100 to 2315
	-130 to +1300
-252 to +700 -252 to +1000	-200 to +600 -200 to +900
-52 to +1496 -52 to +1860	0 to 1395 300 to 1760
	RANGE (°C) -272 to +1472 -272 to +1100 -260 to +1300 -272 to +500 24 to 1920 -100 to +1860 -100 to +1860 -52 to +2416 -272 to +1400 -252 to +700 -252 to +1000 -52 to +1496

INSTALLATION

Current consumption: 20 mA

Operating temperature: -10 to +55°C (14 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust **Mounting**: Installation Base (model: R6D-BS)

Weight: 70 g (2.5 oz)

PERFORMANCE

Conversion accuracy: ±0.5°C (±0.9°F) except ±1°C

(±1.8°F) for B, R, S, C, PR

Conversion rate: 250 msec. / 500 msec. (PC programmable.

Factory set to 500 msec.) Converted data range:

• Engineering unit value (°C, K) × 10 (integer)

• Engineering unit value (°F)

Data allocation: 2

Cold junction compensation error:

 ± 1 °C max. at 25 ± 10 °C ± 1.8 °F max. at 77 ± 18 °F

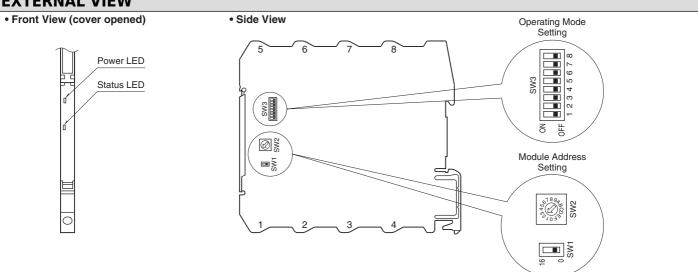
Temp. coefficient: ± 0.01 %/°C (± 0.006 %/°F) of max. span Response time: Conversion rate \times 2 + 50 msec. or less

Line voltage effect: ± 0.1 % over voltage range Insulation resistance: ≥ 100 M Ω with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute (input 1 to input

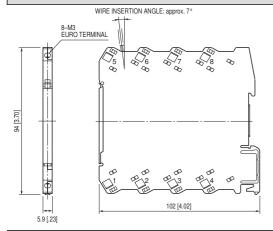
2 to internal bus or internal power to ground)

EXTERNAL VIEW

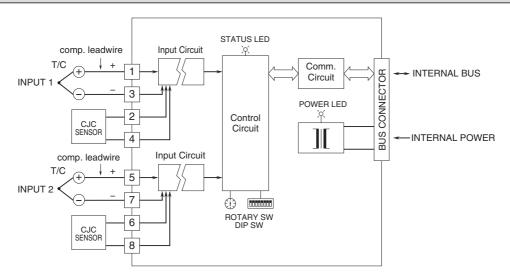


Refer to the instruction manual for setting procedures.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



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Specifications are subject to change without notice.