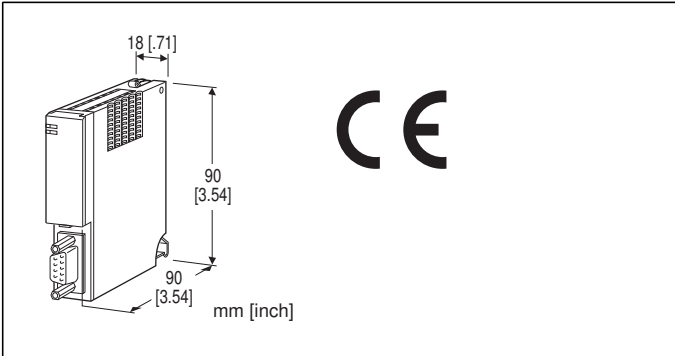


Remote I/O R6 Series

instruction manual)

PROFIBUS-DP INTERFACE MODULE

(for 62-point analog signals)



MODEL: R6-NP1[1]

ORDERING INFORMATION

- Code number: R6-NP1[1]
- Specify a code from below for [1].
(e.g. R6-NP1/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 cable (model: MCN-CON or COP-US)
 - PC configurator software (model: R6CON)
- Downloadable at our web site.

GENERAL SPECIFICATIONS

Connection

- Network:** 9-pin D-sub connector, female
- Internal bus:** Via the Installation Base (model: R6x-BS)
- Power supply:** Via the Installation Base (model: R6x-BS)
- Max. number of I/O modules:** 31 (analog 62 points)
- Module address:** 1 to 31
- Isolation:** PROFIBUS to internal bus or internal power
- RUN indicator:** Bi-color (green/red) LED (refer to the instruction manual)
- ERR indicator:** Bi-color (green/red) LED (refer to the

PROFIBUS COMMUNICATION

Interface: PROFIBUS-DP, slave (RS-485 isolation)
Station No. setting: Rotary switch; 00 - 7D
 (Station No. is 7D even setting greater value)
Max. baud rate: 12 Mbps
Protocol: DPV1 (The following functions are available.)
 Alarm function (Pull/Plug alarm, Status alarm);
 I&M function (I&M 0 through 3)
Transmission cable: Approved for PROFIBUS-DP
GSD file: Msys0C57.GSD
 Downloadable at our web site
Input data: Max. 124 bytes
Output data: Max. 124 bytes
Total I/O data: Max. 248 bytes
Diagnostics: Module-related, Status (device-related),
 Channel-related (max. 32 channels, maskable)

INSTALLATION

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: R6x-BS)
Weight: 100 g (0.22 lb)

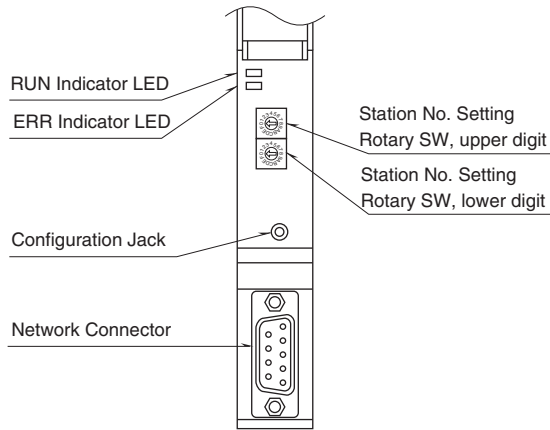
PERFORMANCE

Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC
Dielectric strength: 1500 V AC @1 minute (PROFIBUS to internal bus or internal power)

STANDARDS & APPROVALS

EU conformity:
 EMC Directive
 EMI EN 61000-6-4
 EMS EN 61000-6-2
 RoHS Directive

EXTERNAL VIEW



PROFIBUS INTERFACE

PIN No.	SIGNAL	SIGNIFICANCE
1	NC	Not used
2	NC	Not used
3	B_line	Network, B-line
4	RTS	RTS signal
5	GND	0V
6	P5V	5V
7	NC	Not used
8	A_line	Network, A-line
9	NC	Not used

I/O DATA DESCRIPTIONS

16-BIT ANALOG DATA

0 to 100% of the selected I/O range is converted into 0 to 10000 (binary).

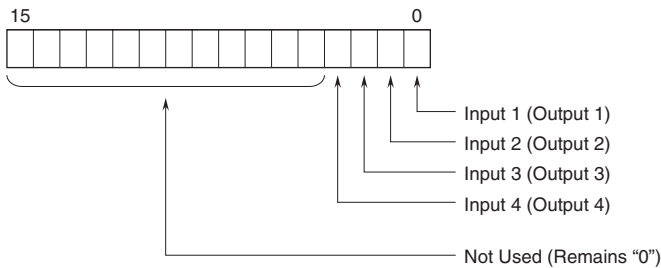
With °C or Kelvin temperature unit, raw data is multiplied by 10. For example, 25.5°C is converted into 255.

With °F temperature unit, the integer section of raw data is directly converted into the data. For example, 135.4°F is converted into 135.

Negative values are represented in 2's complements.

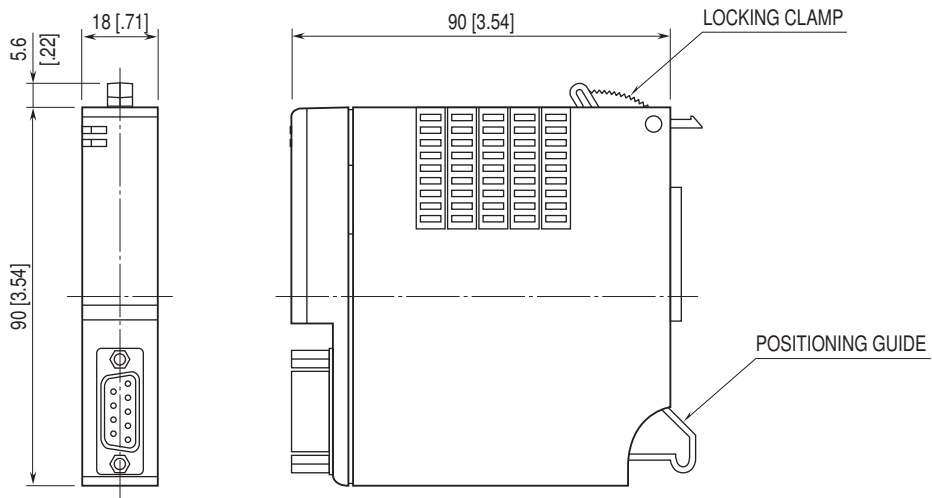


DISCRETE DATA

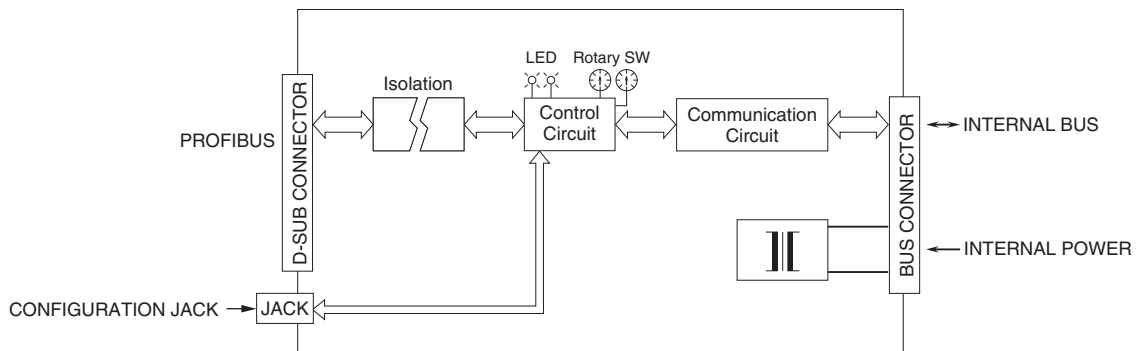


0 : OFF
1 : ON

EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.