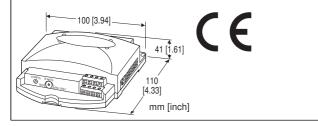
R2K Series

RS-232-C/RS-485 CONVERTER

Functions & Features

• Bidirectional converter between RS-232-C and RS-485 used when connecting Modbus RS-485 devices to a PC



MODEL: R2K-1-[1]

ORDERING INFORMATION

• Code number: R2K-1-R Consult Factory for AC power input.

[1] POWER INPUT

DC Power R: 24 V DC (Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

GENERAL SPECIFICATIONS

Connection

RS-232-C: 9-pin D-sub connector (male, lock screw No. 4-40 UNC); A 'Straight' type cable connecting to the PC is to be prepared by the user.

RS-485, power input: Euro type connector terminal Isolation: RS-232-C to RS-485 or power

Data, parity & stop bit setting: DIP switches at the bottom Baud rate setting: Front rotary switch

RUN indicator LED: Green light blinks in normal conditions. **ERR.1 indicator**: Red LED blinks with RS-232-C overrun error; ON with parity framing error.

ERR.2 indicator: Red LED blinks with RS-485 overrun error; ON with parity framing error.

COMMUNICATION

Baud rate: 300, 600, 1200, 2400, 4800, 9600, 14.4 k, 19.2 k, 28.8 k, 38.4 k, 57.6 k, 76.8 k (bps) Data bit: 7 or 8 bits Parity: Odd, even or none Stop bit: 1 or 2 bits Communication: Half-duplex, asynchronous, no procedure Data delay time: 300 microseconds ■ RS-232-C Standard: Conforms to RS-232-C, EIA Transmission distance: 10 meters max. ■ RS-485

Standard: Conforms to TIA/EIA-485-A

Transmission distance: 500 meters max.

Transmission media: Shielded twisted-pair cable (CPEV-S 0.9 dia.)

INSTALLATION

Power consumption • DC: Approx. 2 W Operating temperature: -5 to +60°C (23 to 140°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 150 g (0.33 lb)

PERFORMANCE

Insulation resistance: \geq 100 M Ω with 500 V DC Dielectric strength: 500 V AC @ 1 minute (RS-232-C to RS-485 or power)

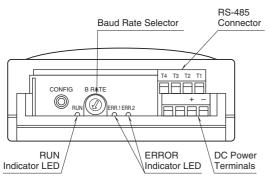
STANDARDS & APPROVALS

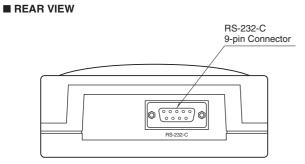
EU conformity: EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2 RoHS Directive

MODEL: R2K-1

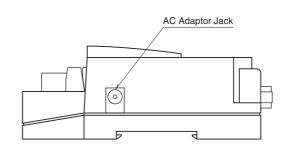
EXTERNAL VIEW

■ FRONT VIEW

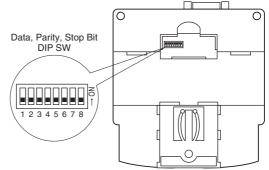




SIDE VIEW



■ BOTTOM VIEW

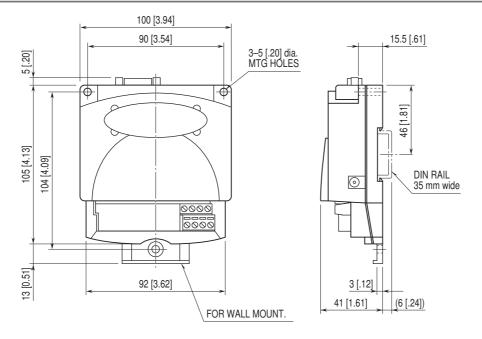


■ RS-232-C INTERFACE



ABBR.	PIN NO.	EXPLANATION OF FUNCTION
BA (SD)	2	Transmitted Data
BB (RD)	3	Received Data
AB (SG)	5	Signal Common
CB (CS)	7	Clear to Send
$CA\left(RS ight)$	8	Request to Send
	1	Not Used.
	4	DO NOT connect. Connecting may
	6	cause malfunctions.
	9	

EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

