

RS-232C Unit

DRT1-232C2

Transfer Data to and from Barcode Readers and Other Peripheral Devices with an RS-232C Port

- Two built-in RS-232C ports with separate settings and controls.
- Send and receive data using explicit messages.
- Read and write for up to 151 bytes.



Note: The production was discontinued at the end of September 2016.

Ordering Information

Name	Number of allocated words	Model
RS-232C Unit (DeviceNet-compliant)	One input word as status area	DRT1-232C2

General Specifications

Communications power supply voltage	11 to 25 VDC
Internal circuit power supply voltage	20.4 to 26.4 VDC (24 VDC -15%/+10%)
Current consumption	Communications power supply: 50 mA max. Internal circuit power supply: 100 mA max.
Insulation resistance	20 MΩ max. (at 100 VDC) between all DC power supply terminals and FG
Dielectric strength	500 VAC at 50/60 Hz for 1 min between all DC power supply terminals and FG with a leakage current of less than 1 mA
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power line)
Vibration resistance	10 to 57.7 Hz, 0.75-mm single amplitude and 57.7 to 150 Hz at 98 m/s ² acceleration
Shock resistance	Malfunction: 196 m/s ² three times each in X, Y, and Z directions Destruction: 294 m/s ² three times each in X, Y, and Z directions
Ambient operating temperature	-10°C to 55°C (with no icing or condensation)
Ambient storage temperature	-25°C to 65°C
Ambient storage humidity	25% to 85% (with no icing or condensation)
Ambient operating atmosphere	With no corrosive gas
Mounting method	M4 screw or 35-mm DIN track mounting
Mounting strength	100 N: 10 s 10 N in track direction: 10 s

Terminal strength	Pulling force: 100 N: 10 s
Weight	250 g max.
Dimensions	110 x 65 x 60 mm

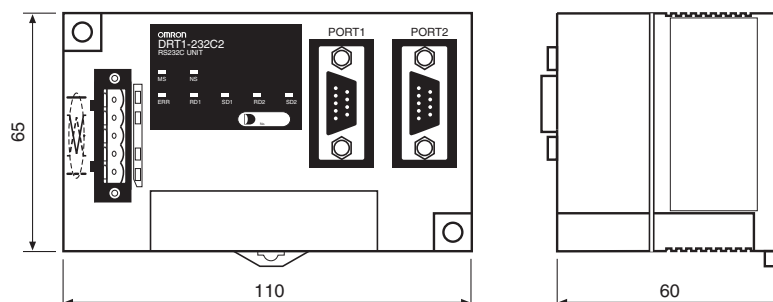
RS-232C Communications Specifications

Communications method	Full duplex, start-stop synchronization communications control
Transmission distance	15 m max.
Baud rate	1,200/2,400/4,800/9,600/19,200 bps
Transmission code	ASCII (7 bits)
No. of ports	Even, odd, or none
Stop bit length	1 or 2 bits
No. of ports	2
Connector	9-pin D-sub connector (male) x 2 ports
Communications memory capacity	1,024 bytes x 2 ports
Header code	Enabled (1 byte)/Disabled (selectable)
Delimiter code	Enabled (1 byte)/Disabled (selectable)
Flow control	Enabled/Disabled (selectable) for RS/CS control only

Dimensions

(Unit: mm)

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Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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Application Considerations

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OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the product in the customer's application or use of the product.

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The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.
Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

Note: Do not use this document to operate the Unit.

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