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RS-232C Module

DRT1-232C2

RS-232C Module Communications with Peripheral Devices Over the DeviceNet

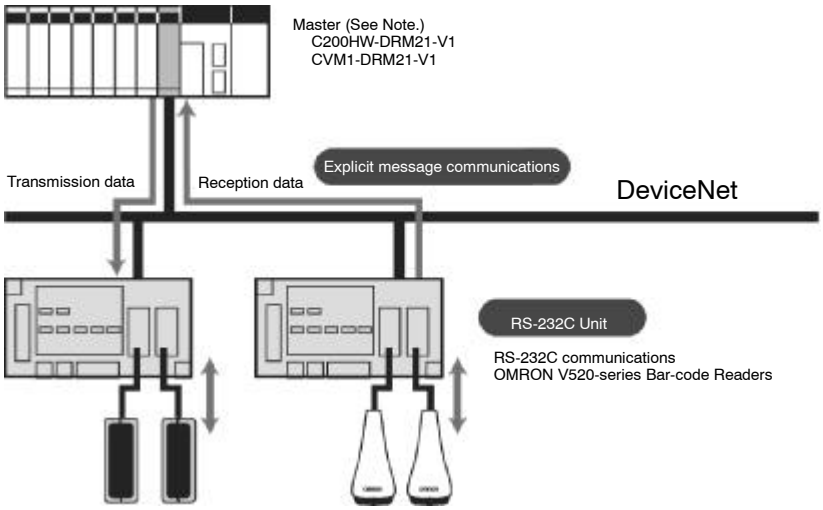
- Over the DeviceNet, exchange data with RS-232C-compatible peripheral devices such as bar-code readers.
- Two RS-232C ports
- Data exchanged using explicit message communications



Ordering Information

Name	No. of words	Model
RS-232C Module (DeviceNet-compatible)	One input word as status area	DRT1-232C2

System Configuration



Note: The Master supports explicit message communications.

Specifications

■ Ratings/Characteristics

General Specifications

Item	Specification
Communications power supply voltage	11.0 to 25.0 VDC (through communications connector)
External power supply voltage	24 VDC +10%/–15%
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	Internal circuit power supply (normal): ±600 V with a pulse width of 100 ns/1 μs Internal circuit power supply (common): ±1.5 kV with a pulse width of 100 ns/1 μs
Vibration resistance	10 to 57.7 Hz, 0.75-mm single amplitude and 57.7 to 150 Hz at 98 m/s^2 (10G) acceleration
Shock resistance	Malfunction: 196 m/s^2 (20G) three times each in X, Y, and Z directions Destruction: 294 m/s^2 (30G) three times each in X, Y, and Z directions
Ambient temperature	Operating: –10°C to 55°C (with no icing or condensation)
Ambient temperature	Storage: –25°C to 65°C
Ambient humidity	25% to 85% (with no icing or condensation)
Operating environment	With no corrosive gas
Mounting method	M4 screw or 35-mm DIN track mounting
Mounting strength	100 N (approx. 10 kgf): 10 s 10 N (approx. 1 kgf) in track direction: 10 s
Terminal strength	Pulling force: 100 N (approx. 10 kgf): 10 s
Weight	250 g max.
External dimensions	110 x 65 x 60 mm

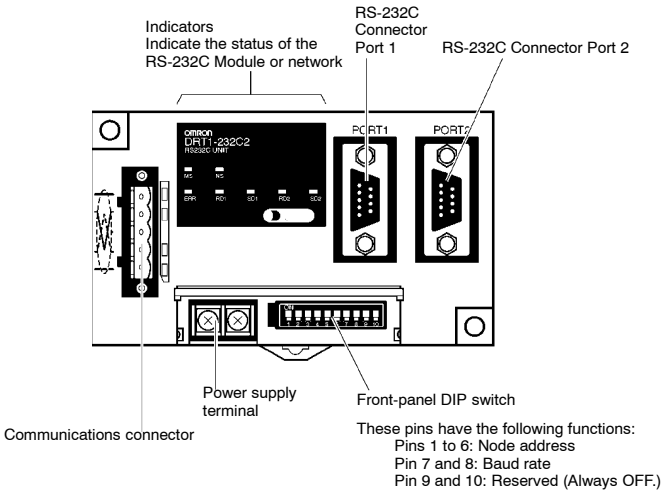
RS-232C Communications Specifications

Item	Specification
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)
Parity check	Even, odd, or none
Stop bit length	1/2 bit
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

DeviceNet Communications Specifications

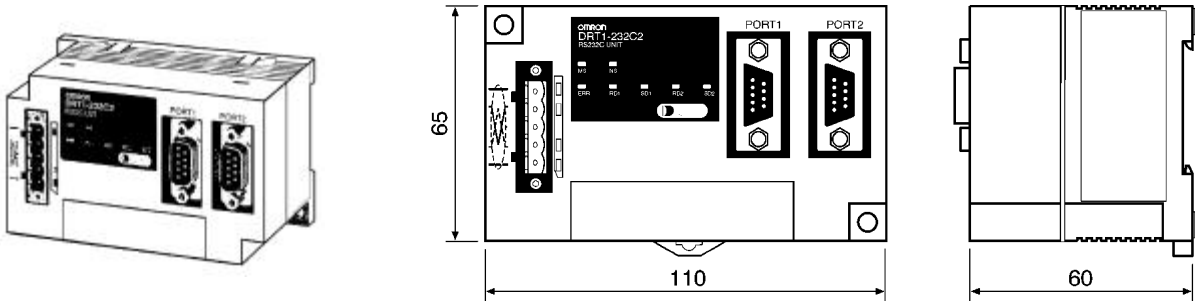
Item	Specification
Communications method	CSMA/NBA
Baud rate	500,000/250,000/125,000 bps
Frame configuration	CAN header: 19 bits CAN trailer: 25 bits Data: 0 to 64 bits
Communications function	I/O bit strobe command/response I/O polling command/response Explicit message request/response
Encoding method	NRZ method with bit staff function Detected by CAN controller: Bit error, staff error, CRC error, form error, and ACK error Executed by CAN controller: Error retransmission System execution Scan list compare, MAC, ID duplication check Error monitor (bus-OFF state, Slave time-out monitoring)
Cable	DeviceNet-dedicated shielded cable Five-wire cable (2 for signals, 2 for power, and 1 for shielding)

Nomenclature



Dimensions

Note: All units are in millimeters unless otherwise indicated.



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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Cat. No. P10FAX1A 6/00 Specifications subject to change without notice. Printed in U.S.A.

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