

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

OMRON

Analog Output Module

DRT1-DA02

I/O Interface Converts Binary Data into Analog Output Data

- Two outputs available.
- High resolution of 1/6000.
- Conversion is possible within a range of −5% to 150% full scale.
- High conversion speed of 4 ms/two points.
- Handles a wide range of outputs including 1 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA, and 0 to 20 mA.
- Bears the CE marking.



Ordering Information

Classification	I/O points	Model
Analog output Module	2 outputs (Occupies 2 output words of the Master.)	DRT1-DA02

Specifications

■ Ratings

Output

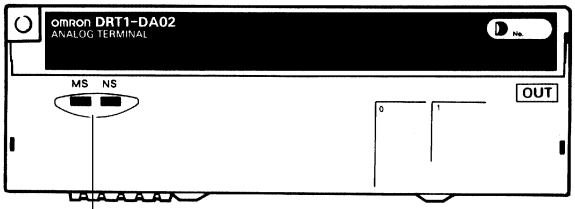
Item	Type	
	Voltage output	Current output
Output points	2 points	
Output type	1 to 5 V 0 to 10 V −10 to 10 V	0 to 20 mA 4 to 20 mA
Allowable external output load resistance	1 KΩ min.	600 Ω max.
External output impedance	0.5 Ω max.	---
Resolution	1/6000 full scale	
Overall accuracy	25°C : ±0.4% full scale 0°C to 55°C: ±0.8% full scale	
Conversion time	4 ms/2 points	
Converted output data	Binary data −10- to 10-V range: 8BB8 to 0BB8 full scale Other signal ranges:0000 to 1770 full scale	
Insulation resistance	20 MΩ min. at 250 VDC (between insulated circuits)	
Insulation method	Photocoupler insulation between outputs and communications lines (There is no insulation between output signals.)	

■ Characteristics

Communications power supply voltage	11 to 25 VDC (supplied from the communications connector)
Internal power supply voltage	20.4 to 26.4 VDC (24 VDC $^{+10\%}/_{-15\%}$)
Current consumption	Communications: 30 mA max. at 24 VDC Internal circuit: 150 mA max. at 24 VDC
Noise immunity	Power supply normal: ±600 V for 10 minutes with a pulse width of 100 ns to 1 μs Power supply common: ±1,500 V for 10 minutes with a pulse width of 100 ns to 1 μs
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 200 m/s^2 (approx. 20G) Destruction: 300 m/s^2 (approx. 30G)
Dielectric strength	500 VAC for 1 min (1-mA sensing current between insulated circuits)
Mounting method	M4 screw mounting or 35-mm DIN track mounting
Mounting strength	No damage when 50 N (approx. 5 kgf) pull load was applied for 10 s in all directions (10 N min. (approx. 1 kgf) in the DIN track direction)
Terminal strength	No damage when 50 N (approx. 5 kgf) pull load was applied for 10 s in all directions
Ambient temperature	Operating: 0°C to 55°C (with no icing or condensation) Storage: -25°C to 65°C (with no icing or condensation)
Ambient humidity	Operating: 35% to 85% (no condensation)
Weight	200 g max.

Nomenclature

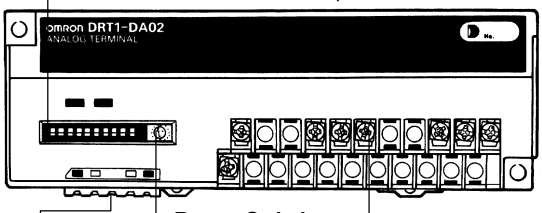
DRT1-DA02



Indicators

Indicates the status of the Slave and network

The DIP switch pins have the following functions:
Pins 1 to 6: Node number
Pins 7 and 8: Baud rate
Pin 9 and 10: Output status after communications error



Communications Connector

Connects the network communications cable. The communications power is also supplied through this connector.

Rotary Switch

Sets the output ranges.

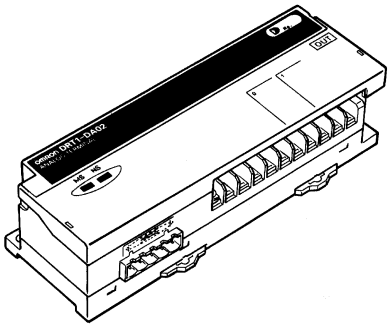
Terminal Block

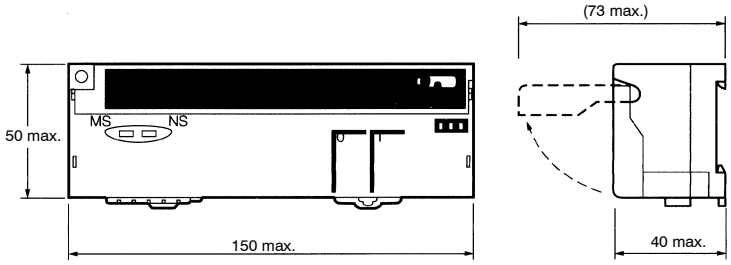
Connects the output power supply and analog outputs.

Dimensions

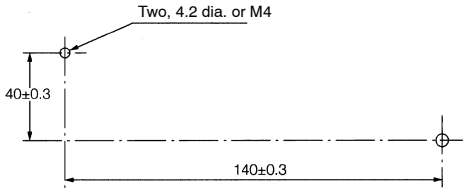
Note: All units are in millimeters unless otherwise indicated.

DRT1-DA02



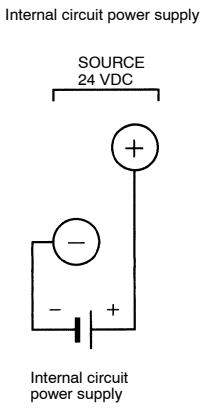


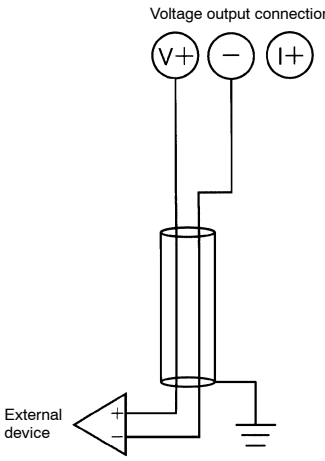
Mounting Holes

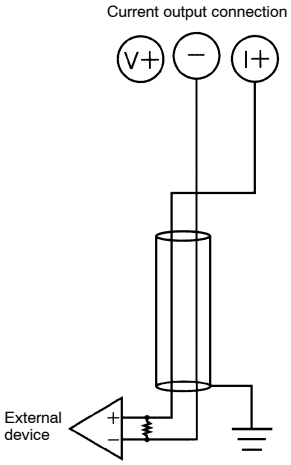


■ Wiring

DRT1-DA02

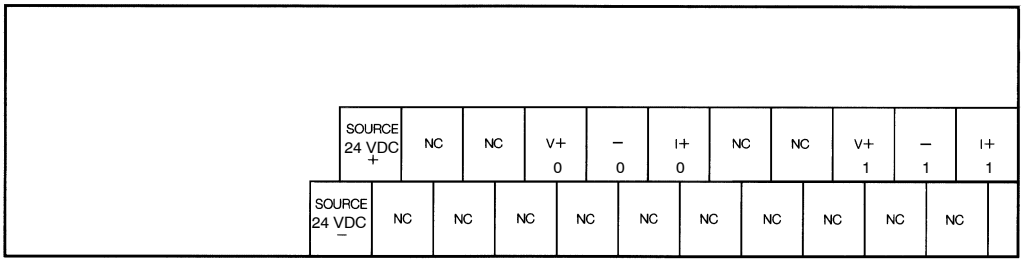






■ Terminal Arrangement

DRT1-DA02



Precautions

Refer to the *DeviceNet Operation Manual (W267)* before using the Module.

- To prevent inductive noise, do not wire power lines or high-tension lines along with or near the cables. Other noise-prevention techniques, such as using shielding or separate conduit/ducting, are also effective.
- Install the Module as far as possible from equipment that generates strong high-frequency signals (such as high-frequency welders) and equipment that generates surges. Such equipment can cause the Module to malfunction.
- Install surge absorbers or noise filters on nearby equipment that generates noise, particularly equipment that has inductive components such as motors, transformers, solenoids, or magnetic coils.
- When using a noise filter in the power supply, check the voltage and current and install the noise filter as close as possible to the Module.

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

OMRON®

OMRON ELECTRONICS, INC.
One East Commerce Drive
Schaumburg, IL 60173
1-800-55-OMRON

OMRON CANADA, INC.
885 Milner Avenue
Scarborough, Ontario M1B 5V8
416-286-6465

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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP