



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON DRT2-ID16. You'll find the answers to all your questions on the OMRON DRT2-ID16 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON DRT2-ID16  
User guide OMRON DRT2-ID16  
Operating instructions OMRON DRT2-ID16  
Instructions for use OMRON DRT2-ID16  
Instruction manual OMRON DRT2-ID16

**Available Models**

| Remote I/O Terminal Basic Units |                   | Remote I/O Terminal Expansion Unit |                               |
|---------------------------------|-------------------|------------------------------------|-------------------------------|
| Model Number                    | Specifications    | Model Number                       | Specifications                |
| DR1-D08(-)                      | 8 Channels, 16PT  | XWT-D08                            | 8 Channels/16 Channels, 16PT  |
| DR1-D16(-)                      | 16 Channels, 16PT | XWT-D16(-)                         | 16 Channels/16 Channels, 16PT |
| DR1-D08(-)S                     | 8 Channels, 16PT  | XWT-D08(-)S                        | 8 Channels/16 Channels, 16PT  |
| DR1-D16(-)S                     | 16 Channels, 16PT | XWT-D16(-)S                        | 16 Channels/16 Channels, 16PT |
| DR1-D08(-)T                     | 8 Channels, 16PT  | XWT-D08(-)T                        | 8 Channels/16 Channels, 16PT  |
| DR1-D16(-)T                     | 16 Channels, 16PT | XWT-D16(-)T                        | 16 Channels/16 Channels, 16PT |

One basic unit always requires a power supply and/or terminal block.

**Dimensions**

**Remote I/O Terminal Basic Units**

| Model Number | Height |
|--------------|--------|
| DR1-D08(-)   | 25.5   |
| DR1-D16(-)   | 25.5   |
| DR1-D08(-)S  | 25.5   |
| DR1-D16(-)S  | 25.5   |
| DR1-D08(-)T  | 25.5   |
| DR1-D16(-)T  | 25.5   |

**Remote I/O Terminal Expansion Units**

| Model Number | Height |
|--------------|--------|
| XWT-D08      | 25.5   |
| XWT-D16(-)   | 25.5   |
| XWT-D08(-)S  | 25.5   |
| XWT-D16(-)S  | 25.5   |
| XWT-D08(-)T  | 25.5   |
| XWT-D16(-)T  | 25.5   |

10-pole model is 16. 8-pole model is 11.

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

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**Authorized Distributor:**

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**OMRON**

*DeviceNet Smart Slaves*

Adding a new dimension to *DeviceNet* with remote maintenance.

**Remote I/O Terminals**  
DRT2-ID16(-)/O D16(-)  
XWT-ID16(-)/O D16(-)  
XWT-ID08(-)/O D08(-)



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**Manual abstract:**

V. Wegalaan 67-69, NL-2132 JD Hoofddorp The Netherlands Tel:(31)2356-81-300/Fax:(31)2356-81-388 OM RON ELECTRONICS LLC 1 East Commerce Drive, Schaumburg, IL 60173 U.S.A. Tel:(1)847-843-7900/Fax:(1)847-843-8568 OM RON ASIA PACIFIC PTE. LTD. 83 Clemenceau Avenue, #11-01, UE Square, Singapore 239920 Tel:(65)6835-3011/Fax : (65)6835-2711 Authorized Distributor: Note: Specifications subject to change without notice. Cat. No. R097-E1-01 Printed in Japan 0502-2M Use production site information in a variety of applications, such as maintenance and quality control.

Collect a variety of data from maintenance systems without influencing control systems and productivity. OMRON's DRT2-series Smart Slaves do not just input and output ON/OFF signals. @@@@This means less wiring work is required. Function for Handling Sensor Inrush Current In order to prevent incorrect input due to inrush current when, for example, power to a sensor is turned ON, the Slave can be set not to accept input for 100 ms after the input power supply is turned ON. XWT-OD08 (NPN) 24 VDC 6 7 8 9 10 XWT-OD08-1 (PNP) 24 VDC 6 7 8 9 V 24 VDC 0 Internal circuit 1 0 1 1 V 2 1 3 3 4 5 5 7 1 V 2 1 3 Black (White) Blue (Black) Brown (Red) Blue (Black) Blue (Black) 3 4 Blue (Black) + + 5 5 7 Internal circuit G 0 2 4 6 G 0 2 4 6 Photocoupler Voltage stepdown G + + I/O power supply I/O power supply General Specifications Item Network power voltage I/O power supply voltage Noise immunity Vibration resistance Shock resistance Dielectric strength Insulation resistance Ambient operating temperature Ambient operating humidity Ambient atmosphere Ambient storage temperature Mounting method Mounting strength Screw tightening torque Specification 11 to 25 VDC (supplied from the communications connector) 20.

4 to 26.4 VDC (24 VDC 15% to +10%) Conforms to IEC61000-4-4: 2 kV (power lines) 10 to 50 Hz, 0.7-mm double amplitude 200m/s 2 Input Specifications Item Model number Internal I/O common processing Number of I/O points ON voltage OFF voltage OFF current Input current ON delay time OFF delay time Number of points per common DRT2-ID16 NPN 15 VDC min. (between each input terminal and V) Specification DRT2-ID16-1 PNP 16 inputs 15 VDC min. (between each input terminal and G) Internal circuit Photocoupler G Solenoid Valve Solenoid Valve Remote I/O Terminal Expansion Units (Models with 16 Transistor Inputs) Remote I/O Terminal Expansion Units (Models with 16 Transistor Inputs) XWT-ID16 (NPN)/ID16-1 (PNP) XWT-ID16 (NPN) V 24 VDC 0 1 Photocoupler XWT-ID16 (NPN)/ID16-1 (PNP) XWT-ID16-1 (PNP) Photocoupler XWT-ID16 (NPN) 24 VDC 10 11 12 13 14 15 16 17 18 XWT-ID16-1 (PNP) 24 VDC 10 11 12 13 14 15 16 17 18 V 24 VDC 0 1 1 V 2 1 3 3 4 5 5 7 6 9 7 11 8 13 9 15 1 V 2 1 3 3 4 5 5 7 6 9 7 11 8 13 9 15 Internal circuit 500 VAC (between isolated circuits) 20 M min.

@@ (between each input 5 VDC min. (between each input terminal and V) terminal and G) 1.0 mA max. per point (at 24 V.



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