Handheld Reader Writer

Equipped with a USB Interface. Simply connect to a personal computer to use. No power supply needed.

- The Read/Write (R/W) Heads and ID Controller are integrated in a compact, lightweight design.
- Simply connect the Handheld Reader Writer to a personal computer to use.
- The ability to communicate with V600-series Data Carriers enables use in existing systems.
- Conformance to R&TTE, FCC approvals.



Ordering Information

■ List of Models

Name	Model
Handheld Reader Writer (USB) 0.8 M	V600-CHUD 0.8 M
Handheld Reader Writer (USB) 1.9 M	V600-CHUD 1.9 M

Specifications

Handheld Reader Writer

Item Mode	I V600-CHUD 0.8M	V600-CHUD 1.9M	
Power supply voltage	5 VDC±5%		
Current consumption	250 mA max. (for a power supply voltage of 5.0 V)		
Insulation resistance	50 M Ω min. (at 500 VDC) between connector and case		
Dielectric strength	1,000 VAC, 50/60 Hz for 1min (1mA max.) between connector and case		
Vibration resistance	Destruction: 10 to 150 Hz, 0.2-mm double amplitude, with 10 sweeps of 8 min each in 6 directions		
Shock resistance	Destruction: 150 m/s ² , 3 times each in 3 directions		
Ambient operating temperature during communicatio	-10 to + 55°C		
Ambient operating humidity during communication	35% to 85% (with no condensation)		
Ambient storage temperature	–25 to + 65°C		
Ambient storage humidity	35% to 85% (with no condensation)		
Degree of protection	IEC 60529: IP63 (See note.)		
Cable length	0.8 m	1.9 m	
Weight	Approx. 120 g (including connector and cable)		

Note: This does not include the connector section. The main unit is not resistant to chemicals or oils.

Host Communications Interface Specifications

Item	V600-CHUD 0.8M/V600-CHUD 1.9M
Interface connector	Series A plug
USB version	Ver 1.1
Communications speed	Full speed (12 Mbps)
Device class	COM class (See note.)

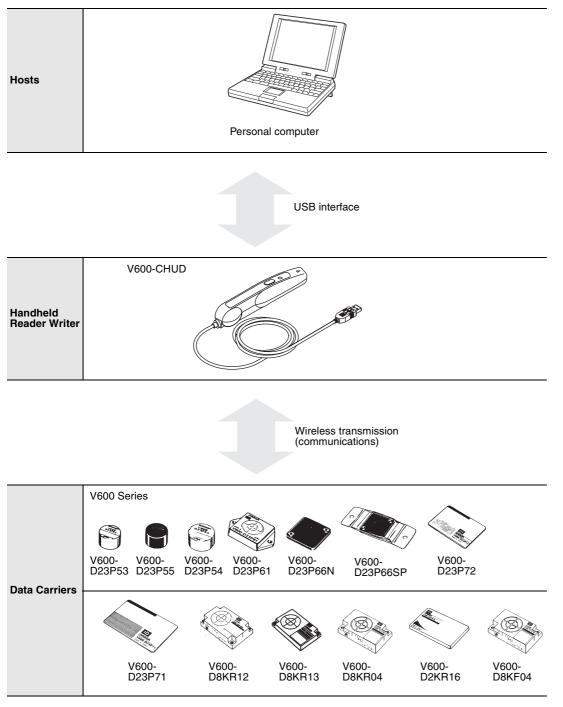
Note: Treated as the COM port of the host unit.

Dedicated drivers are available for Windows 2000 and Windows XP personal computers.

The dedicated driver must be installed before connecting the V600-CHUD to a personal computer according to the V600-CHUD User's Manual (Cat. No. Z219).

Consult your OMRON representative for details on the dedicated drivers.

System Configuration



Functions

- User-specified data stored in Data Carriers can be read and written.
- Special commands enable reading and writing across the memory areas for multiple addresses in one operation.
- Communications with a Data Carrier can be started with commands from the host or with a start button on the Reader Writer.
- For details, refer to the V600-CHUD User's Manual (Cat. No. Z219).

■ Transmission Distances (Recommended Combinations)

Communication is possible with the V600-series Data Carriers presently being marketed.

	Handheld Reader Writer	V600-CHUD
Data Carrier (o	dimensions: mm)	
EEP-ROM	V600-D23P53 (Dia. 8 × 5)	0 to 2.5 mm
	V600-D23P54 (Dia. 12 × 6)	0 to 4 mm
	V600-D23P55 (Dia. 8 × 5)	0 to 10 mm
	V600-D23P61 (36 × 24 × 6)	0 to 11 mm
	V600-D23P66N (34 × 34 × 3.5)	0 to 17 mm (See note 2.)
	V600-D23P66SP (95 $ imes$ 36.5 $ imes$ 6.5)	0 to 12 mm
	V600-D23P71 (86 × 54 × 1.5)	0 to 25 mm
	V600-D23P72 (50 × 34 × 1.5)	0 to 23 mm
S-RAM	V600-D8KR12 (65 $ imes$ 40 $ imes$ 15)	0 to 25 mm
	V600-D8KR13 (86 $ imes$ 54 $ imes$ 10.3)	0 to 20 mm
	V600-D2KR16 (65 × 40 × 5)	0 to 10 mm
	V600-D8KR04 (86 × 54 × 20)	0 to 35 mm
FeRAM	V600-D8KF04 (86 $ imes$ 54 $ imes$ 20)	0 to 18 mm

■ Diagnostic Functions

Diagnostic Functions

Checks for CPU errors and transmission errors.

Precautions

To ensure safety, do not use this product to directly or indirectly detect people. Do not use this product as a detection device to protect people.



S-RAM Data Carriers have a built-in lithium battery which may occasionally cause serious injury by catching on fire, bursting, or burning. Treat the products as industrial waste when disposing of them. Do not disassemble them, alter their shape by applying pressure, or heat or incinerate them at 100°C or higher.



- Note 1. Data Carrier Installation Conditions
 - V600-D23P53/P54: Embedded in iron.
 - V600-D23P55: Embedded in resin.
 - V600-D23P61: Metal (iron) on the back surface of the Data Carrier.
 - V600-D23P66N/P66SP/P71/P72: Resin on the back surface of the Data Carrier (no metal (iron) on the back surface)
 - V600-D8KR12/-D8KR04/-D8KF04: Metal (iron) on the back surface of the Data Carrier.
 - V600-D2KR16: Data Carrier installed on a bracket (V600-A81) and attached to a metal (aluminum) plate.
 - When using the V600-D23P66N at temperatures lower than -10°C, transmission may not be possible at short distances. In this case, move the Reader Writer away from the Data Carrier.

Precautions for Safe Use

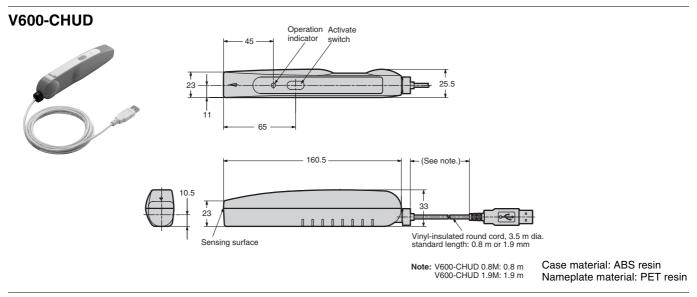
Observe the following precautions to ensure safe product use.

- Do not use in environments that include inflammable, explosive, or corrosive gases.
- Do not disassemble, repair, or modify the product.
- Observe all cautions, notes, and precautionary points given in this document.
- In the event of an abnormal smell, extreme heating of the product, smoke, etc., stop using the product immediately and turn OFF the power.
- When disposing of the product, treat it as industrial waste.

Dimensions

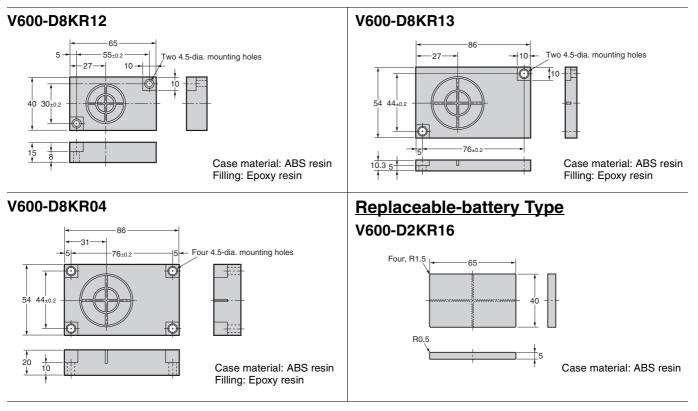
Note: All units are in millimeters unless otherwise indicated.

Handheld Reader Writer

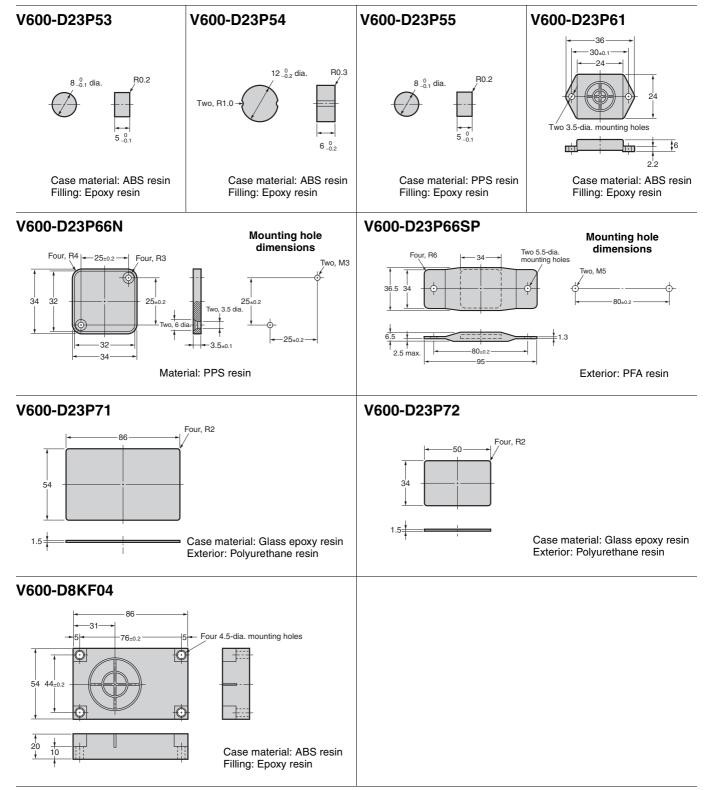


■ V600-series Data Carriers

Built-in-battery Type



Battery-less Type



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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. Q142-E1-01 In the interest of product improvement, specifications are subject to change without notice.

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