The VJET Ethernet/RS-485 converter is a compact, plug-in type communication converter that uses the Modbus TCP protocol for connecting to host devices with Ethernet capability, and uses the Modbus/RTU protocol for connecting to devices with the with RS-485 communication function.

**Easy-to-install plug-in configuration**

**Space-saving design (29.5 mm wide, installed)**

**Flexible**

Enables monitoring of multiple widely separated sensor signals from a single location via Ethernet. Up to 31 sources can be monitored per VJET unit.

**Quick Installation**

Monitoring systems can be set up quickly using DAQWORKX* software (recommended).

*DAQWORK Data Acquisition Software Suite

**Save Wiring**

Installs in your existing LAN with a minimum of additional wiring.

**Save Space**

29.5 mm wide (installed) space-saving design. Mounts easily on the wall or on DIN rails. Can be rack-mounted when installed in the VJCE-01A mounting base for communication.

**Use Worldwide**

Choose 24 VDC or 100-240 VAC/DC power supply specifications. Supports CSA, CE, and UL safety standards (CE and UL pending)

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**Modbus/TCP Protocol**

This is an open protocol compatible with TCP/IP. It is one of the protocols that can perform communication in the application layer of TCP/IP packets, and uses port 502.

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**DAQWORKX**

Data Acquisition Software Suite

**DX100/DX200**

**VJ series signal Conditioner**

Variety of sensor signals

DC voltage, current, temperature, pulse, potentiometer

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**VJET**

Ethernet/RS-485 Converter

VJET Ethenet/RS-485 converter is a compact, plug-in type communication converter that uses the Modbus TCP protocol for connecting to host devices with Ethernet capability, and uses the Modbus/RTU protocol for connecting to devices with the with RS-485 communication function.

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**VJCE-01A**

Mounting base for communication

RS-485(Modbus/RTU)

Conforms to JIS/EIA mounting dimensions

Enables connection with RS-485 communication devices when connected to the RS-485 communications terminal of the main unit.

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**Variety of site display systems**

**DC voltage, current, temperature, pulse, potentiometer**

**Up to 16 VJ series signal conditioners can be installed (including VJET)**

**Expandable up to 31 units**

**Save Wiring**

Installs in your existing LAN with a minimum of additional wiring.

**Save Space**

29.5 mm wide (installed) space-saving design. Mounts easily on the wall or on DIN rails. Can be rack-mounted when installed in the VJCE-01A mounting base for communication.

**Use Worldwide**

Choose 24 VDC or 100-240 VAC/DC power supply specifications. Supports CSA, CE, and UL safety standards (CE and UL pending)

---

**Modbus/TCP Protocol**

This is an open protocol compatible with TCP/IP. It is one of the protocols that can perform communication in the application layer of TCP/IP packets, and uses port 502.
Support for a Variety of Applications

Lets you connect to controllers for remote monitoring via Ethernet.

Supported Devices
JUXTA Signal Conditioners, Green Series Digital Indicating Controllers, UT1000 Series Temperature Controllers,
Note: Requires RS-485 capability, I/F, and support for the Modbus/RTU protocol. For details, see the specifications of the specific device.

Ethernet/RS-485 Converter VJET

- **Specifications**
  - **Ethernet communication**
    - Interface: Conforms to IEEE802.3(10BASE-T)
    - Protocol: Modbus/TCP
    - Access control: CSMA/CD
    - Transfer rate: 10Mbps
    - Maximum segment length: 100m (the length between Hub and converter)
    - Maximum connecting configuration: Up to 4 cascade connection per hub
  - **RS-485 communication**
    - Interface: Conforms to EIA RS-485
    - Protocol: Modbus-RTU
    - Transfer system: Half-duplex communication
    - Synchronous system: Start-stop synchronization
    - Transfer rate: 9600bps
    - Data length: 8
    - Stop bit: 1
    - Parity: Even, odd or none

- **Power Supply**
  - Power supply rated voltage: 24V DC or 100-240V AC/DC(50/60Hz)
  - Power consumption: 1.8W at 24V DC, 1.5W at 110V DC, 2.6VA at 100V AC, 4.0VA at 200V AC

- **Mounting and Appearance**
  - Mounting Method: Wall, DIN rail
  - External Dimension: 76(H)×235(W)×124.5(D)

- **Model and Suffix Codes**

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VJET</td>
<td>-01/02/03/</td>
<td>Ethernet/RS-485 Converter</td>
</tr>
<tr>
<td>Supply</td>
<td>-01/02/03/</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>100-240V AC (Operating range: 85 to 264V AC/DC)</td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>SN</td>
<td>Without socket</td>
</tr>
<tr>
<td></td>
<td>R220</td>
<td>Attachment of a terminator</td>
</tr>
</tbody>
</table>

VJ series Mounting Base for Communication

- **Model and Suffix Codes**

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VJCE</td>
<td>-01/-02/03/</td>
<td>VJ series Mounting Base</td>
</tr>
<tr>
<td>Connection</td>
<td>(Input/Output-1/Output-2)</td>
<td>Screw terminal/Screw terminal/RS-485 communication terminal</td>
</tr>
</tbody>
</table>

VJ series Signal Conditioners

- **Basic accuracy ±0.1% of span**
- **Four way isolation (input, output1, output2, and power supply)**
- **Field configurable input type (mV/thermocouple, RTD) and range (VJU7)**
- **Selectable analog output, alarm output or communication output for output-2 as 2nd output (option)**

- **Line Up**
  - Isolator: VJH7
  - Distributor: VJA7
  - Temperature Converter: VJU7
  - Potentiometer Converter: VJS7
  - Analog to Pulse Converter: VJQ7
  - Pulse to Analog Converter: VJQ8
  - Pulse Rate Converter: VJP8
  - Universal Computing Unit: VX7

- **Display of large measured values**
- **Measurement accuracy of ±0.1% of F.S.**
- **Universal I/O (TC, RTD, DCV)(relay, voltage pulse, current)**
- **Wealth of control functions (cascade control, loop control with PV switching, dual-loop control, etc.)**
- **Standard equipped with transmission output/15 VDC loop power supply for sensor**
- **Input computation functions (including 10-seg linearizer approx, square root, and bias)**
- **Communications functions (PC link, ladder, MODBUS)**
- **Safety standards (UL, CSA, CE marking)**

Subject to change without notice.
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