JUXTA

YOKOGAWA

# Ethernet/RS-485 Converter

# VJET

**The 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.**

Easy-to-install plug-in configuration

Space-saving design (29.5 mm wide, installed)

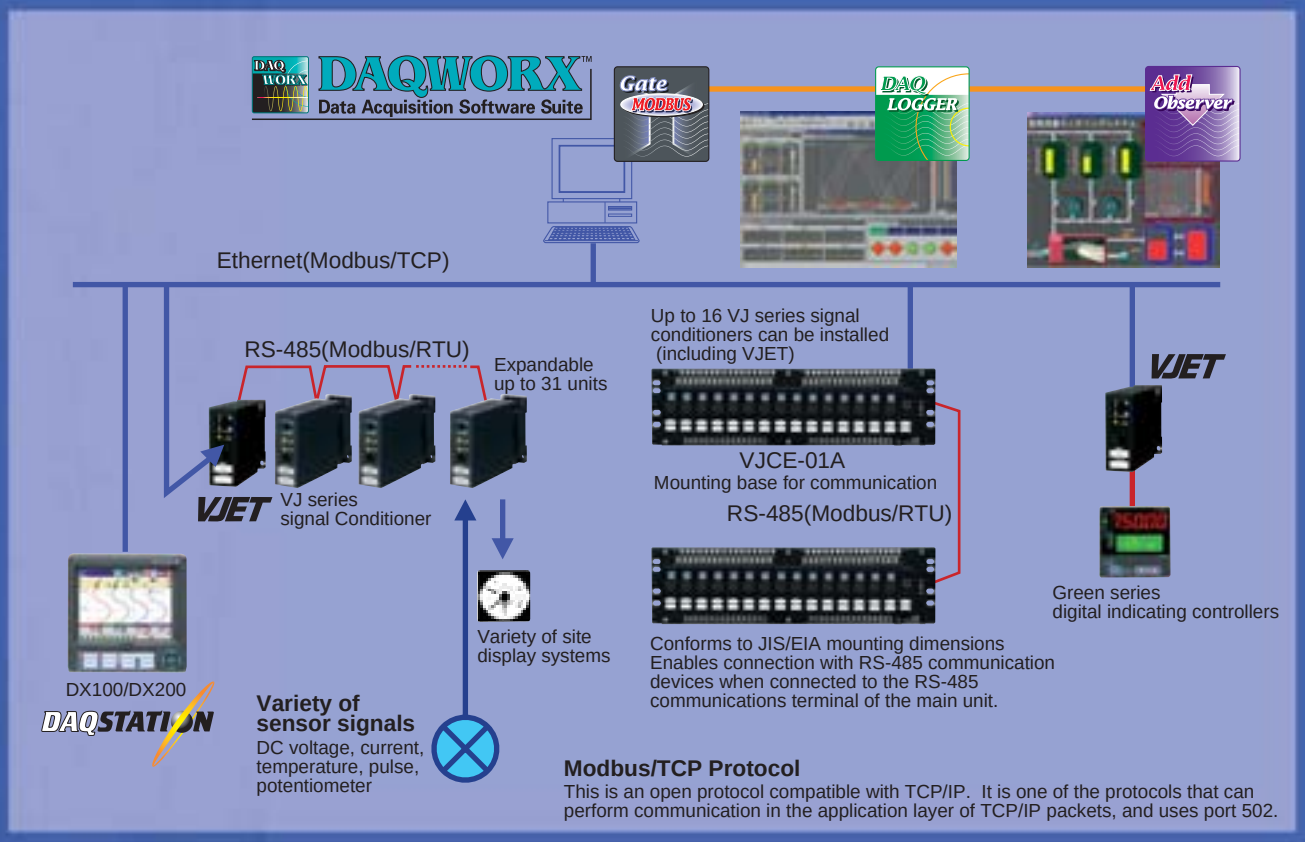
**Flexible**
Enables monitoring of multiple widely separated sensor signals from a single location via Ethernet. Up to 31 sources can be monitored per VJET unit.

**Quick Installation**
Monitoring systems can be set up quickly using DAQWORX* 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)




**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,UT100 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.


## NEW 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 |

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<br>2.6VA at 100V AC, 4.0VA at 200V AC |

Mounting and Appearance

| | |
|---|---|
| Mounting Method | Wall, DIN rail, |
| External Dimension | 76(H)×29.5(W)×124.5(D) |

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 |

Environmental Conditions

| | |
|---|---|
| Operating temperature range | 0 to 50℃ |
| Operating humidity range | 5 to 90% RH (no condensation) |

### ■ Model and Suffix Codes

| Model | Suffix Code | | Description |
|---|---|---|---|
| VJET | -01□-1000/□ | | Ethernet/RS-485 Converter |
| Power Supply | 3 | | 24V DC (±10%) |
| | 6 | | 100-240V AC (Operating range: 85 to 264V AC/DC) |
| Options | | SN | Without socket |
| | | R220 | Attachment of a terminator |

### ■ VJET Setting Tool v1.0.0

VJET communication parameter can easily be set via Ethernet. High-speed response mode, parity, IP address, subnet musk, default gateway.
Visit our web site and download this software
http://www.yokogawa.com/cis/FieldNetworkDevices/NetworkConverters/cis-vjet-001-en.htm
See the VJET (IM 77J01E11-01E) for detailed specifications.

## NEW VJ series Mounting Base for Communication

### ■ Mounting and Appearance

Signal connection : Input/Output-1/Output-2
M3.5 screw terminal
Installation : Rack-mounted, or Wall-mounted in a horizontal position
External dimension : 130(H)×482.6(W)×121(D) unit:mm

### ■ Model and Suffix Codes

| Model | Suffix Code | | Description |
|---|---|---|---|
| VJCE | -01□ | | VJ series Mounting Base |
| Connection (Input/Output-1/Output-2) | | A | Screw terminal/Screw terminal/RS-485 communication terminal |

## 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 | VJX7 |

## Green Series Digital Indicating Controllers


- 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)

YOKOGAWA

**YOKOGAWA ELECTRIC CORPORATION**
*Network Solutions Business Div.*/Phone: (81)-422-52-7179, Fax: (81)-422-52-6793
E-mail: tm@csv.yokogawa.co.jp

**YOKOGAWA CORPORATION OF AMERICA** Phone: (1)-770-253-7000, Fax: (1)-770-251-2088
**YOKOGAWA EUROPE B.V.** Phone: (31)-33-4641806, Fax: (31)-33-4641807
**YOKOGAWA ENGINEERING ASIA PTE. LTD.** Phone: (65)-62419933, Fax: (65)-62412606