



# KV-EP02

EtherNet/IP™ Compatible Communication Unit



\*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

## Specifications

Model				KV-EP02
General specifications	Power voltage			24 VDC (+10%/-15%)
	Operating ambient temperature			0 to +55°C <a href="#">32 to 131°F</a> (no freezing)**12
	Operating ambient humidity			5 to 95% RH (No condensation)**1
	Storage ambient temperature			-25 to +75°C <a href="#">-13 to 167°F</a>
	Storage relative humidity			5 to 95% RH (No condensation)**1
	Operating environment			No dust or corrosive gas
	Operating altitude			2000 m <a href="#">6561.7'</a> or less
	Noise immunity			1500 Vp-p or more; pulse width: 1 μs, 50 ns (based on noise simulator); IEC standard-compliant (IEC61000-4-2/3/4/6)
	Withstand voltage			1500 VAC for 1 minute between the power terminals and the I/O terminals, and between the external terminals and the housing (1000 VAC for 1 minute between the power supply terminal and output terminals for the transistor output type expansion I/O unit)
	Insulation resistance			50 MΩ or more (between the power terminals and the input terminals and between the external terminals and the housing, with 500 VDC megohmmeter)
	Vibration resistance	Intermittent vibration	Frequency 5 to 9 Hz	When mounted on a DIN rail: Half amplitude: 3.5 mm <a href="#">0.14"</a> **3
			Frequency 9 to 150 Hz	When mounted on a DIN rail: Acceleration: 9.8 m/s² <a href="#">32.2'/s²</a> **3
		Continuous vibration	Frequency 5 to 9 Hz	When mounted on a DIN rail: Half amplitude: 1.75 mm <a href="#">0.07"</a> **3
			Frequency 9 to 150 Hz	When mounted on a DIN rail: Acceleration: 4.9 m/s² <a href="#">16.1'/s²</a> **3
	Internal current consumption			120 mA or less*4
	Shock resistance			When mounted on a DIN rail: Acceleration: 150 m/s² <a href="#">492.1'/s²</a> , Operation time: 11 ms, 3 times in each of the X, Y, and Z directions
	Overvoltage category			I
	Pollution degree			2
	Weight			Approx. 130 g
Performance specifications	Connection interface			RJ-45 8-pole modular connector × 2 ports
	Transmission rate			10BASE-T: 10 Mbps, 100BASE-TX: 100 Mbps*5
	Transmission media			10BASE-T: Category 3 or higher UTP or STP (STP is recommended) 100BASE-TX: Category 5 or higher UTP or STP (STP is recommended)*6
	Max. number of connectable hubs			10BASE-T: 4, 100BASE-TX: 2*7
	Maximum cable length			100 m <a href="#">328.1'</a> **8
EtherNet/IP™ specification	Trigger			Cyclic
	Compliant functions			Cyclic communication, Message communication (explicit message communication), UCMM, and Class 3 support

EtherNet/IP™ specifications	Number of connections	64
	RPI (Transmission cycle)	0.5 to 10000 ms (in units of 0.5 ms)
	Conformance test	Compliant with CT14

\*1 Guaranteed range in which the system can be used.

\*2 The temperature below the unit center (30 mm 1.18") inside a control panel.

\*3 Compliant with JIS B 3502 and IEC61131-2, No. of scans: 10 times in each of the X, Y, and Z directions (for 100 min.)

\*4 The maximum current consumption including that of expansion units is 1.8 A.

\*5 10 Mbps/100 Mbps MDI/MDI-X automatic switching function supported

\*6 STP = Shielded twisted pair cable; UTP = Unshielded twisted pair cable

\*7 The maximum number of connection is not limited when an Ethernet switch is used.

\*8 The maximum cable length refers to the distance between the KV-EP02 and the Ethernet switch.

# Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

kv-ep02\_dimension\_01.gif

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