



KV-XL402

Serial communication unit, 2 ports (RS-422A/485×2)



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

Specifications

| | | |
|---|---|---|
| Model | | KV-XL402 |
| Type | | Serial communication unit |
| Communication standard | | RS-422A RS-485 (4 wires), RS-422A RS-485 (2 wires) |
| Connection interface | | European terminal block with 5 poles (detachable) × 2 ports |
| Transmission specifications | Electrical termination (terminator) | ON/OFF set by the switch on the front face |
| | Transmission rate | 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 bps |
| | Transmission method | RS-422A RS-485 (4 wires): Full duplex RS-422A RS-485 (2 wires): Half duplex |
| | Data format | Start bit: 1 bit Data bit: 7 bits, 8 bits Stop bit: 1 bit, 2 bits |
| | Error detection | Parity: Even, odd, none |
| | RS/CS flow control | ON or OFF (only in PLC link mode) |
| | Transmission distance | Total extension: 1200 m 3937.0' max.*1*2 |
| | Number of transmission units | 32*1 |
| Refresh | | Automatic refresh, direct refresh, inter-unit synchronization refresh |
| Serial communication functions | | Non-procedure, PROTOCOL STUDIO, Modbus slave, etc. |
| Serial communication function execution methods | | Ladder program, unit program (flow) |
| Unit program capacity | | 3 MB (Max. number of blocks: Approx. 20000) |
| flow | Max. number of flows | 256 |
| | Number of simultaneous activities | Unlimited |
| Flow | Internal data Memory | 524288 words |
| PROTOCOL STUDIO | Transmission method | Cyclic communication: Tx + Rx, Tx only, Rx only Event communication: Tx + Rx, Tx only, Rx only, Tx + Continuous Rx, Break Tx |
| | Max. number of connected devices | 2 |
| | Max. number of communication commands | 48/96*3 |
| | Maximum number of total frames | Rx: 48/96*3 × 16; Tx: 48/96*3 × 1 |
| | Max. number of compared received frames | 16 per command |
| | Maximum number of block elements | 96 per frame |
| | Transmission data length | 1 to 2048 bytes per frame |
| | Reception data length | |
| PLC link | Communication patterns | Write, read, transfer |

| | | |
|------------------------------|----------------------------|--|
| | Number of link settings | 512 settings max.*4 |
| | Link data size | 1440 words max. per setting (bit: 720 words, word: 720 words) 737280 words max. (total) (1440 words × 512 settings) |
| | Data unit | 1 word |
| | Number of connected models | 2 models max. (1 model × 2 ports) |
| | Number of connected units | 2 max. (1 unit × 2 ports) |
| | Trigger types | Cyclic/event (64 settings max. for event*4) |
| | Update interval | 10 to 65535 ms |
| Internal current consumption | | 150 mA or less |
| Weight | | Approx. 190 g |

*1 Depends on the function to be used.

*2 The total extension is 500 m 1640.4' max. at a transmission rate of 230400 bps. The transmission rate and distance vary depending on the device to be connected. Check the values with the actual device.

*3 The max. is 48 when "Standard" is set for the number of communication commands in Unit Editor and 96 when "Extended" is set.

*4 Total for one KV-XL202/XL402 unit.

Dimensions

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

kv-xl402_dimension_01.gif

KV-XL402

