

RS232/485/422 EXTENDER OVER FIBER

KNXV-RS-244-F-20

Product Description

The Konexe 1ch RS232/422/485 Extender over Fiber is a robust industrial solution designed to extend serial data transmission far beyond the limitations of copper cabling. Capable of transmitting signals up to 20km over Single-mode fiber, this device is essential for large-scale facilities like power plants, substations, and factories. Unlike copper wires, fiber optics are immune to Electromagnetic Interference (EMI), Radio Frequency Interference (RFI), and power surges. This makes the Konexe extender the standard choice for connecting remote PLCs, RTUs, and meters to control rooms in high-voltage environments without the risk of data corruption or ground loops.



Features

- Maximum communication rate >0-115.2Kbps
- 5V IADC voltage input, external power supply
- Default FC interface
- Working wavelength: 1310nm/1550nm
- The interface provides 1500W surge protection and 15KV electrostatic protection
- Optional : Multi mode communication can reach 2 kilometers, and single mode communication can reach 20-120 kilometers
- RS-485 supports 32 point polling (customizable 128 points)

RS-232 data

- DB9 serial port interface
- RS-232 data rate DC-250Kbps
- RS-232 data error rate is less than 10E-12
- The maximum number of RS-232 nodes is 32
- RS-232 maximum distance 1200 meters
- RS-232 data protocol fully transparent supports any RS-232 protocol, including RS-232 polling or Modbus protocol
- RS-232 network connection supports bidirectional full duplex

RS-232 (3-wire system) 2 inputs 3 outputs 5 ground

Working Environmental & Physical

- Working temperature -25 °C to 70 °C
- Storage temperature -40 °C to 85 °C
- Relative humidity: 5% to 95%
- Working voltage AC100~240V, DC5V

RS-485 data

- Standard compliant with EIA RS-485/422 standard
- RS-485 signal T+, T -, R+, R-
- Fiber optic signal IN, OUT
- Asynchronous working mode, point-to-point
- The direction control adopts data flow automatic control technology to automatically distinguish and control the direction of data transmission
- Baud rate 0-115200Kbps, automatically detects signal rate
- Fiber optic wavelength 1310nm/1550nm
- The transmission distance of the electrical port is 1000 meters from the RS-485 port
- Optical port transmission distance single mode 20 km
- Interface protection 600W surge protection, 1500V static protection
- Load capacity RS-485 port supports 32 nodes
- Electrical port form 7-position wiring terminal