

RS-485 Protocol Converters



USB-485 Communication Interface

The USB-485 Communication Interface is a protocol converter used to connect a PC's USB port to the RS-485 input on your Tyco Kantech controller KT-1/KT-200/KT-300/KT-400. The USB-485 unit is designed to connect to (and be powered by) the USB port of a host computer. It supplies the data at the required RS-485 communications protocol necessary for door controllers. Up to 32 door controllers can be connected together on an RS-485 multi-drop network. Installed between the host and the door controllers, the USB-485 permits a "daisy chain" configuration, which extends the maximum transmission distance to 1,200 meters.

Features That Make a Difference

- Converts USB to RS-485
- Supports up to 32 Kantech controllers
- Uses unshielded twisted pair (UTP) communication cable
- Supports Windows Server 2008 R2 Standard/Enterprise, Windows Datacenter 2012 (X64), Windows 10 Enterprise, Windows 8.1 Enterprise x86 and x64, Windows 7 Pro Enterprise/Ultimate (32- and 64-bit versions)
- Powered by USB port
- Extends communication up to 1,200 m (4,000 ft)

Ordering Information

Model	Description
USB-485	"Transparent" USB/RS-485 protocol converter from a USB port on the host PC



VC-485 Multi-Function Communication Interface

The VC-485 Communication Interface is an RS-232/RS-485 protocol converter primarily used to connect a PC to a KT-100/ KT-200/ KT-300 controller. The VC-485 is an RS-232 to RS-485 protocol converter that acts as the interface between a host computer's RS-232 port and up to 32 door controllers connected together on an RS-485 multi-drop network.

Features That Make a Difference

- Converts RS-232 to RS-485
- Supports up to 32 Kantech controllers
- Uses UTP cable
- Powered by 5 VDC or 12 VDC
- Extends communication up to 1,200 m (4,000 ft)
- Extends communication up to 5,486 m (18,000 ft) by connecting two together
- Two VC-485s may be connected back-to-back to extend the RS-485 communication bus

Ordering Information

Model	Description
VC-485	RS-232/RS-485 protocol converter which allows a connection to a daisy-chained set of Kantech KT-Series controllers from a serial port on the host PC. Max bus length 1.2 km. Observe cable type requirements

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.kantech.com or follow Kantech on LinkedIn, Twitter and Facebook.

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