ATC-109N data repeater is a kind of data relay communication product of photoelectric isolated RS-422/RS-485. It can be used with ATC-108 Photoelectric Isolation Interface Converter in combination. ATC-109N data repeater can prolong the communication distance of RS-422/RS-485 bus network and increase the number of RS-422/RS-485 bus network devices. The inner circuit of ATC-109N Photoelectric Isolation Data Repeater can detect data direction and switch to control it automatically, conveniently to form a RS-485 network without any shake hand signal. This kind of RS-485 control is fully transparent and need not amend software for the former network basing on RS-422/485 working modes. The built in photoelectric isolator and DC/DC converter can offer 3500V isolation voltage and the rapid Transient Voltage Suppressor (TVS) can effectively inhibit lightning and ESD, provide 1000W lightning strike and surge protection power on each line, and prevent lightning strike and common code interference.

### Feature
- Can prolong the communication distance of RS-422/RS-485 bus network
- Increase the number of RS-422/RS-485 bus network device
- Automatic data direction control, zero-latency design
- High efficiency lightning protection tube can effectively inhibit lightning and ESD, and offer 1000W lightning strike & surge protection power on each line
- Can greatly enhance the credibility of the whole RS-485/422 network
- Interface feature: Interface is compatible with EIA/TIA RS-485/RS-422 standard
- Electric interface: RS-422/RS-485 interfaces are 6-bit screw terminal
- Transmission media: twisted-pair cable or shielded cable
- Working mode: asynchronous half or full duplex
- Signal indication: 3 signal indication lights indicate TXD, RXD and PWR
- Isolation: isolation voltage 3500VRMS 500VDC sequence
- Transmission speed: 0-115.2kbps
- Transmission distance: 0-5 km
- Working environment: -20℃ to 70℃, 5% to 95% relative humidity
- Product appearance: 100mmx86mmx26mm

### Application
- Point to point, point to multi-point communication
- Industrial distribution system, industrial control automation
- Road traffic control automation
- Closed circuit monitoring
- Security protection system
- Intelligent card, check on work attendance gate safety system

### Order information
- **ATC-109**: RS-232 to RS-422/485 Isolation Interface Converter (elongated DB9)
- **ATC-109N**: RS-422/RS-485 Industrial Class Wall-mounted Photoelectric Isolation Data Repeater

### Contact us
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