



# FL485

## RS-485 Surge Protector

### Introduction:

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors, FL485 have high respond speed, low output rudimental voltage, ascendance transfer performance. All have #10 ground screws which must be connected to a solid ground.

### Packing List:

FL485 is shipped with following items.

1. FL485 × 1
2. User manual × 1

### Features:

1. Three stages of protection on every data line
2. Protected signal ground connection
3. Easy to install, plug-and-play
4. 4500V surge protection

### Specifications:

Standard: Accord EIA RS-485 standard

RS485 signal: IEC6100-4-5 and ITU-TK20&21

Working voltage: 0-5V

Limit voltage: <15V

Apply Band rate: 1Mbps

Isolate signal: TXD, RXD, GND

Connector: Standard industrial terminal block

Insert consumption: <0.5dB

Delay time: <1ns

### Environment

Working temperature:-20 to 60

Storage temperature:-25 to 85

Humidity: Relative humidity 5% to 95%

**Power**

Input powered: No power supply needed

Consumption: No consumption

**Dimension**

L×W×H: 80mm×25mm×22mm

Shell: Alnico

Color: Blue

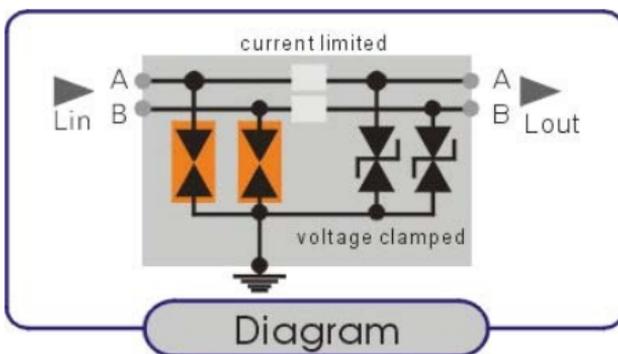
Weight: 10g

**Warranty: 5 years**

**Approvals: FCC,CE, RoHS approvals**

**Circuit diagram:**

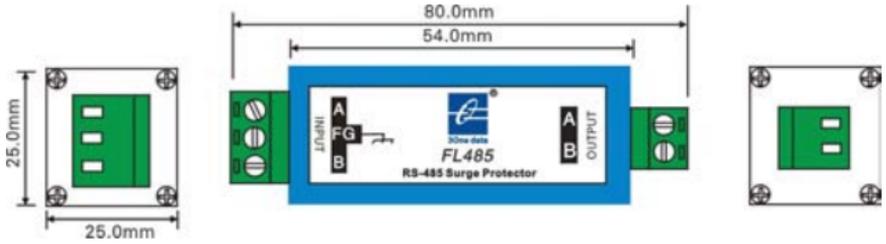
FL485 is designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exist surge, the FL485 is induced and worked ,the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.

**Applications:****Cautions and Notices:**

1. When installing the FL485 between signal and protected device, the Output must be near to protected device ,all and earth FG, the resistance is less than  $4\Omega$ .

2. Normally, for Output and Input, between A and A, or B and B, the resistance is less than  $12\Omega$ . Besides, between A,B and FG, the resistance is more than  $1M\Omega$ . Or else, please replace the FL485.

### Dimension:



### Certifications:



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