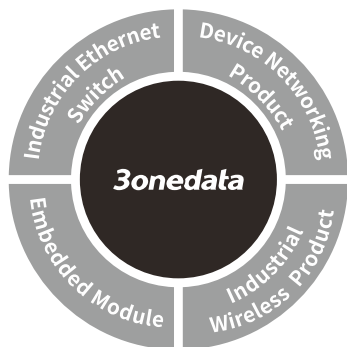


FL485 Surge Protection Devices For Twisted-Pairs System Quick Installation Guide



3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

- | | |
|---------------------------|----------------------------|
| 1 Surge protection device | 2 Quick installation guide |
| 3 Certification | 4 Warranty card |

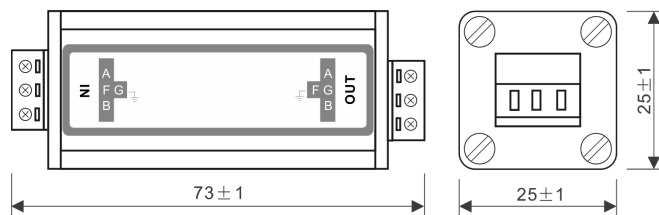
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

The product is RS-485 surge protection device. Model is: FL485 (1 RS-485 input +1 RS-485 output).

【Mounting Dimension】

Unit: mm



Note before mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【The Method of Maintenance】

- This product is connected in series. The surge protection device is installed in the front end of the protected equipment. The "IN" of the surge protection device is the input side, and the "OUT" is the output side. That is, the external signal cable is connected to the "IN (Line)" end of the surge protection device, The protected device is connected to the "OUT (Equip)" end of the surge protection device;
- The length of the connection line between the protected equipment and the surge protection device should not exceed 0.5 meters, it is better that the surge protection device is closer to the protected equipment;
- The PE line of the surge protection device is connected to the equipotential bonding terminal of the protected device first, and then reliably connected with the grounding network of the lightning protection system. The connection line is required to be short, thick and straight;

- The components in the surge protection device are strictly tested. Normally, no special maintenance is required. The surge protection device should be regularly tested during use. Remove the surge protection device during fault detection. The resistance between the input and output should be $\leq 11\Omega$, and the resistance between the core line and ground should be $\geq 10M\Omega$. If there is a fault, it should be repaired or replaced in time to ensure the safety of the equipment.

【Specification】

Specifications	
Nominal operating voltage / Un	5V
Maximum continuous operating voltage / Uc	6V
Nominal discharge current / In(8/20us)	500A(Line-line), 3000A(Line-ground)
Maximum discharge current / I _{max} (8/20us)	1000A(Line-line), 5000A(Line-ground)
Voltage protection level / Up(1.2/50us)	<30V(Line-line), <600V(Line-ground)
Impulse withstand voltage (10/700us)	6000V(Line-line, Line-ground)
Insertion loss	$\leq 0.5\text{dB}$
Number of protection lines	2 lines
Transmission rate	0-10Mbps
Interface type	3Pin 5.08 terminal blocks
Degree of protection	IP20
Response time	$\leq 10\text{ns}$
Working temperature	-20°C~+60°C
Dimensions	73*25*25 (±1) mm
Net Weight / Gross weight	49 / 67 (±5) g