FINGERTEC
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Evade Power Surges with

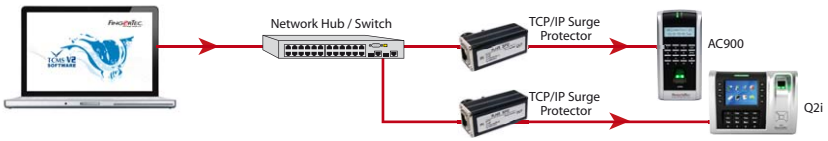
TCP/IP or RS 485 Data Line Surge Protector

You can prevent power surges by installing surge protectors, grounding cables or ELCB (Earth Leakage Circuit Breaker) to the devices. However, surges and spikes can occur via the data line to destroy or damage your FingerTec terminals. The data line surge protector is a recommended component to drive the excessive energy away from the communication ports of FingerTec terminals into a ground connection.

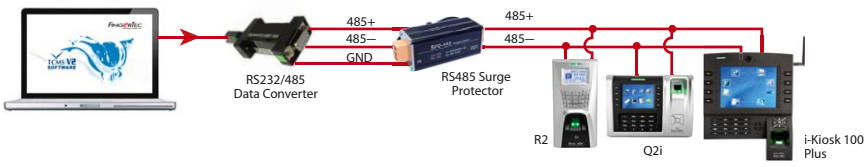
Both the FingerTec TCP/IP and RS485 surge protector provides a high level protection against voltage peaks and spikes caused by lightning and other power surges. The surge protectors are shielded with a metal case aluminum enclosure and also EMI noise suppression that will not interrupt the communication. They are also equipped with an integral ground wire to connect to a single point ground connection (metal chassis) to facilitate proper grounding. It is recommended that the surge protector should be installed as close as possible to the FingerTec devices to better protect the terminals.

INSTALLATION DIAGRAM

TCP/IP SURGE PROTECTOR



RS485 SURGE PROTECTOR



SPECIFICATIONS

MODEL	TCP/IP Surge Protector	RS485 Surge Protector
DIMENSION (MM)	60 x 25 x 25	75 x 25 x 25
OPERATING VOLTAGE (V)	5	12
CLAMPING VOLTAGE (V)	< 50 (1, 2, 3, 6)	< 80
MAX SURGE DISCHARGE CURRENT	2.5KA (8/20uS)	5KA (8/20uS)
DATA TRANSMISSION RATE (MBPS)	100	2
RESPONSE TIME (S)	<1	
OPERATING TEMPERATURE (°C)	-40 to 70	
OPERATING HUMIDITY (% NON-CONDENSING)	0 to 90	
CONNECTORS	RJ45 shielded jacks	RS485+, 485- and GND (input) RS485+ and 485- (output)
GROUND WIRES	Yes	
CABLES	CAT5, CAT5e	Belden Shielded Twisted Pair (STP)
EMI NOISE SUPPRESSION	Yes	

1 YEAR LIMITED WARRANTY
15 Months for Resellers

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