®

DSX Access Systems, Inc.

DSX-DP232/485 Surge Protectors

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DP232 RS-232 Data Surge Protection Module typically used in pairs to isolate an RS-232 underground or overhead cable run. RS-232 12V Data Communication Protection Response Time <10nsec. / Max Speed – 1.5Mhz / Clamp Voltage + 23.5V

DP485 RS-485 Data Surge Protection Module typically used in pairs to isolate an RS-485 underground or overhead cable run. RS-485 5V Data Communication Protection Response Time <10nsec. / Max Speed – 1.5Mhz / Clamp Voltage + 11.7V
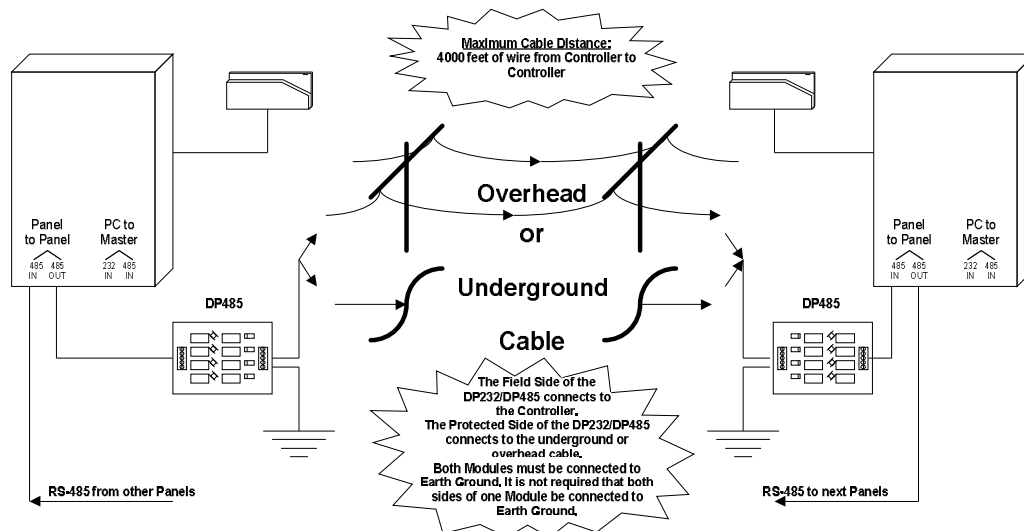
Size
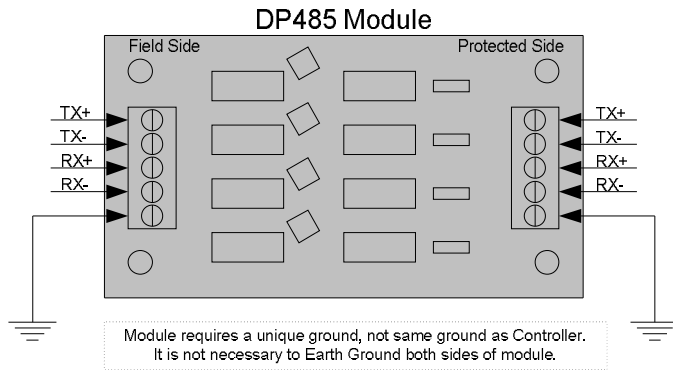5"W x 2.75"H x 1.25"D

Weight
3 oz.

Power Requirements
Passive – only requires Earth Ground

DSXDP232/485 Typical Application

Maximum Cable Distance:
4000 feet of wire from Controller to Controller

Panel to Panel   PC to Master
485   485   232   485
IN   OUT   IN   IN

DP485

Overhead
or
Underground
Cable

The Field Side of the DP232/DP485 connects to the Controller.
The Protected Side of the DP232/DP485 connects to the underground or overhead cable.
Both Modules must be connected to Earth Ground. It is not required that both sides of one Module be connected to Earth Ground.

RS-485 from other Panels

Panel to Panel   PC to Master
485   485   232   485
IN   OUT   IN   IN

DP485

RS-485 to next Panels

RS-485 Communications between Controllers

DP485 Module

Field Side   Protected Side

TX+   TX+
TX-   TX-
RX+   RX+
RX-   RX-

Module requires a unique ground, not same ground as Controller.
It is not necessary to Earth Ground both sides of module.

RS-232 Communication between PC and Master

DP232 Module

Field Side   Protected Side

TX   TX
RX   RX
GND   GND
Not Used   Not Used

Module requires a unique ground, not same ground as Controller.
It is not necessary to Earth Ground both sides of module.