

S43-RS485

RS485 Add-On Board for
4.3" PanelPilotACE Display



S43-RS485 is an add-on board for the SGD 43-A that allows communication using the RS485 serial interface.



SGD 43-A display sold separately

The S43-RS485 is an accessory to the PanelPilotACE range of compatible displays and panel meters and is compatible with the 4.3" PanelPilotACE display module (SGD 43-A). The S43-RS485 mounts on the rear of the SGD 43-A and provides a 3 wire RS485 interface as well as an optional 120Ω terminator.

This device can be connected to via the A (Data+), B (Data-) and GND pins and provides half duplex communication.

The software currently supports ASCII based serial communication as well as the MODBUS (RTU) protocol. More protocols are being added.

Specifications

Electrical Specification

	Min	Typical	Max
Receiver Output High Voltage	Vcc-0.6 (4.4V)	-	-
Receiver Output Low Voltage	-	0.17	0.4
Input Current (V = 12V)		80uA	125uA
Input Current (V=-7V)	-100uA	-50uA	
Max Data Rate		20Mbps	

Absolute Maximum

A/B Voltage	-8V - +13V
Temperature Range	0 to 40°C



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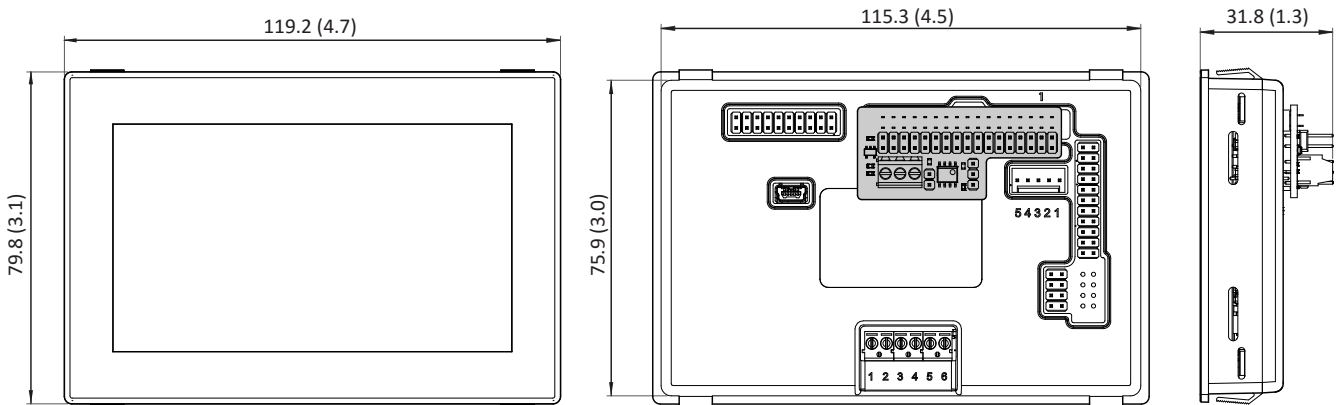
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Dimensions and Mounting

All dimensions are in mm (in)



The diagram (above-right) indicates which pins on the SGD 43-A that the S43-RS485 should be connected to.

Configuring RS485

When configuring a project to use RS485 on the SGD 43-A you will lose the ability to use PWM1, PWM2, PWM 3 and DIG8. All other pins on PL4 are brought through onto the header on the S43-RS485.

You will need to select the direction control pin to be either DIG8 or PWM3. This is done on the S43-RS485 board by selecting either DIO or PWM with the jumper link on PL1.

Finally, you can either fit or remove the jumper on PL2 to add or remove the terminating resistor.

