

RS485 Mini Signal Conditioner Board



Actual size

Specifications

Power supply voltage Power supply current

Operating temp range (board only) Storage temp range (board only) Angle range Board dimensions Mounting hole and spacing Temp. sensor range 3 to 5 VDC (regulated) 9mA @ 5VDC 6mA @3.3VDC -40°C to +85°C -55°C to0 +100°C 0-100% of sensor range (16 bit,65535 counts max) 1.25" x 1.25" or 32mm x 32mm square 0.089" dia. and 1.05" (center to center) -40°C to +125°C (10 bit resolution)

Signal Description J1

Pin #	Signal name	Direction	Description
1	Vcc	Input	Supply voltage input: $+ 3$ to $+ 5$ vdc regulated
2	GND	-	Ground – The reference for the digital signals and the supply voltage
3	GND	-	Ground – The reference for the digital signals and the supply voltage
4	ТХ	Bi-directional	RS485 - B
5	RX	Bi-directional	RS485 - A
6	GND	-	Ground – The reference for the digital signals and the supply voltage
7	GND	-	Ground – The reference for the digital signals and the supply voltage

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Command Format

XXYY# (= start of string, XX = address, YY = command, # = end of string				
Commands for X and Y axis, temperature				
Additional commands to change address (1 to 99), baud rate (1200 to 38400), and enter and save a user ID				
Refer to operating manual for all RS485 commands				

NOTE: To convert the 10 bit data returned from the on board MCP9700 use the following formulas, MCP9700 output voltage = 10 bit value / 1023 * supply voltage Temperature C = (MCP9700 output voltage - 0.5) / 0.010

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SPI signal conditioner board assembly



Sensor Configuration

Sensor Configuration	Description
Dual Axis sensor mounted on board (standardd configuration)	 Dual Axis is mounted in location L1 R5 is 10.0K ohms R6 is not installed
Single Axis sensors mounted off board	 Single axis sensors are connected to J3 (x-axis) and J4 (y-axis) No sensor is installed in L1 R5 is not installed R6 is 1.0K ohms Note: if R5 is not removed then R6 must be less than 100 ohms

NOTE: J2 is for factory use only.