

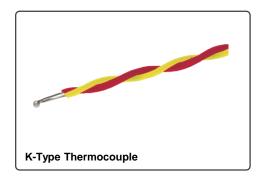
## **ORB-X1 Tech Tip**

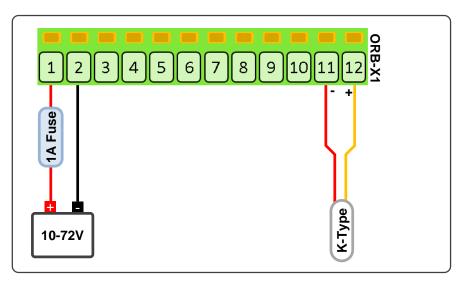
## TT002: Thermocouple Sensor

This technical tip shows how to connect a thermocouple to the ORB-X1. The ORB-X1 has a dedicated thermocouple input that is compatible with K, J, T, N, S, E, B and R-Type thermocouples.

Note that the red wire on a thermocouple is often the negative terminal.

Sensor Parameters		
Part Number	601-301	
Туре	K Type Thermocouple	
Material	0.2mm dia solid or stranded PFA insulated twisted pair leads	
Operating Range	-75°C to +250°C	
Cable Length	2m	
Supplied by	www.tcdirect.net.au	







Setting (Thermocouple)	Value	Comment
Name	Water Temp	A meaningful name for the sensor data
Interval	1	1 means the sensor is sampled on every base interval
Hysteresis	2	The amount by which the temperature needs to change to exit warning or alarm
Туре	K	The type of thermocouple
Warning	Enabled	A warning will be issued if the level goes outside limits
Low Warning	5	The levels below which a warning will be issued
High Warning	50	The level above which a warning will be issued
Alarm	Enabled	An alarm will be issued if the level goes outside limits
Low Warning	0	The level below which an alarm will be issued
High Warning	60	The level above which an alarm will be issued