

Thermocouple Sensors and Adapters (TCAK / TCAJ)



Thermocouples are used where you are exposing the sensor to extremes of temperature. Mostly used for industrial type applications, cryogenics and chemical industry. AKCP provides a complete thermocouple package as well as adapters for type K and J thermocouples if you have existing sensors that you wish to interface with our monitoring platform.



For customers who have an existing thermocouple of either a J or K type, we provide an adaptor for interfacing this with our monitoring platform. This turns your thermocouple into a network enabled SNMP compliant therm couple sensor that can be monitored remotely and send alerts via E-mail, SNMP and SMS when temperatures exceed your pre defined thresholds.

TCAK / TCAJ - Technical Specifications

Temperature	
Measurement Range	K Type : -200°C to +900°C -330°F to 1650°F J Type : -40°C to +750°C -40°F to 1382°F
Measurement Resolution	sensorProbe+ series 0.1°C increments 0.2°F increments securityProbe series 0.5°C increments 0.9°F increments
Measurement Accuracy	sensorProbe+ series and securityProbe series ±5°C ±9°F
Interface	
Communication Cable	RJ-45 jack to sensor using UTP CAT5e/6 cable Plugs directly into the AKCP J or K type thermocouple adapter
Power source	Powered by the base units. No additional power needed
Power Consumption	Typical 7.80 mWatt, 1.56 mA
Maximum Cable Length	Run length is 100 feet (30 meters) with approved low capacitance shielded cable or UTP
Dimension	0.61m x 4.5mm (sheath diameter)
Sensor count	1

J / K Type Thermocouple Adapter Only

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Maximum Cable Length	Run length is 100 feet (30 meters) with approved low capacitance shielded cable or UTP
Sensor Connector	Compatible with industry standard J/K type thermocouples
Dimensions	56 x 55 x 33.3 mm
Sensor count	1

TCAK / TCAJ - Technical Drawing

