Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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# S15 - VERSASENSE SURFACE TEMPERATURE SENSOR

## PRODUCT DESCRIPTION

The VersaSense Surface Temperature Sensor (**S15**) detects the temperature of a surface it is attached to using a Type K thermocouple.

## VERSASENSE SENSORS

VersaSense Sensors are self-identifying sensors and actuators that connect to VersaSense Wireless Devices to provide plug-and-play sensing and control.

The VersaSense software automatically installs and configures all drivers, eliminating the cost and complexity of deploying an IoT network.

**Note:** only one peripheral of this type may be connected to a VersaSense Wireless Device.

## APPLICATIONS

The surface temperature sensor supports temperature sensing of objects with large temperature ranges. Applications include:

- ★ Monitoring of heating, ventilation and air conditioning (HVAC)
- ★ Monitoring the temperature of ovens, freezers, 3D printers and refrigerators
- ★ Monitoring heat production of stoves and radiators

## CORE COMPONENTS

The **S15** is based on the MCP9600 from Microchip Technology® and the SA1XL from Omega®, for more information please visit:

Microchip_MCP9600.pdf
Omega_SA1XL.pdf

## S15 CHARACTERISTICS

| Characteristic | Value | Unit |
|---|---|---|
| Min/Max Temperature | -73/260 | °C |
| Accuracy Temperature | +/- 1.5 | °C |
| Min/Max period between updates | 10 / 86400 | s |
| Avg current: period = 1hour | 310 | nA |
| Avg current: period = 60s | 18.60 | µA |
| Avg current: period = 10s | 111.60 | µA |

**Note:** avg current values represent the current that this sensor draws from a VersaSense Wireless Device that is configured with the noted update period. This value excludes message transmission.

## RELATED PRODUCTS

Item **S15** requires a VersaSense Wireless Device such as **Pxx** or **Lxx**. This item is compatible with all items in the VersaSense catalog:

versasense.com/files/VersaSense-Catalog.pdf

## INFORMATION/SUPPORT

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