



## 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](http://versasense.com/files/VersaSense-Catalog.pdf)

### INFORMATION/SUPPORT

Web: [www.versasense.com](http://www.versasense.com)  
Sales: [sales@versasense.com](mailto:sales@versasense.com)  
Help: [support@versasense.com](mailto:support@versasense.com)  
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