VersaSense

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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