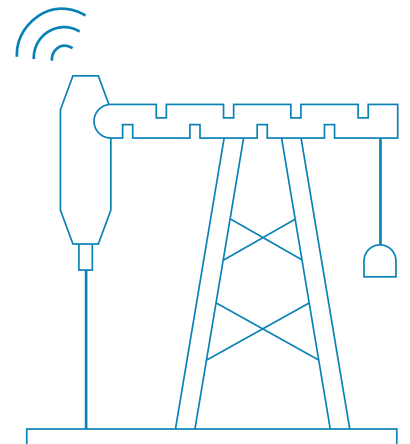
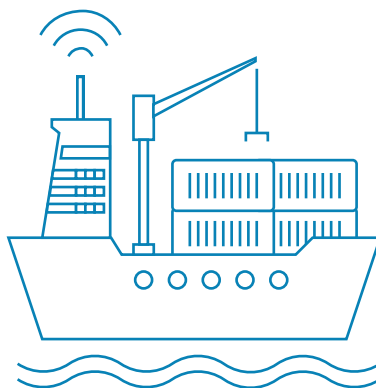
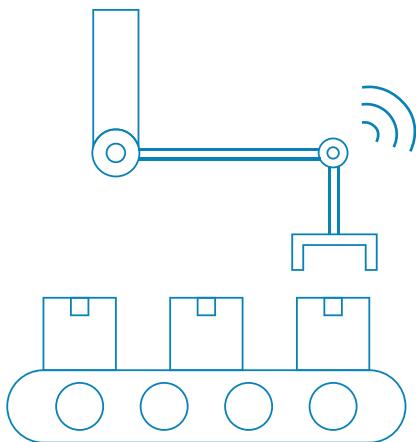


KOSMOS

Sensor & Actuator Datasheet

This document contains technical information about the types of sensors & actuators that Kosmos supports.



Extreme Temperature

Technical Specifications

Sensor Type	High grade K type thermocouple probe
Range	-200°C [-328°F] to 260°C [500°F]
Accuracy	±2.2°C
Power	Up to 500,000 transmissions from 2 AA batteries. Wireline power via 12C 3A adapter.
Distance	2 mile range with antenna. Extensible up to 28 miles with high-gain antennas.
Radio Frequency	900MHz for North America & Canada
Transmission Interval	User configurable to a maximum of once per second
Environment	Indoor
Applications	Industrial boiler temperature monitoring, liquid temperature measurement, temperature monitoring of food storage units, and more.

Ambient Temperature & Humidity

Technical Specifications

Sensor Type	Industrial grade temperature & humidity sensor
Range	-25°C [-13°F] to 85°C [185°F] / 0 to 100% relative humidity
Accuracy	±1°C temperature / 4% relative humidity
Power	Up to 500,000 transmissions from 2 AA batteries. Wireline power via 12C 3A adapter.
Distance	2 mile range with antenna. Extensible up to 28 miles with high-gain antennas.
Radio Frequency	900MHz for North America & Canada
Transmission Interval	User configurable to a maximum of once per second
Environment	Indoor
Applications	Indoor temperature and humidity monitoring, warehouse monitoring, fridge and freezer monitoring, office comfort level monitoring.

AC Current Power Monitor

Technical Specifications

Sensor Type	Split core current transformer
Range	0-100 A
Power	Up to 500,000 transmissions from 2 AA batteries. Wireline power via 12C 3A adapter.
Distance	2 mile range with antenna. Extensible up to 28 miles with high-gain antennas.
Radio Frequency	900MHz for North America & Canada
Transmission Interval	User configurable to a maximum of once per second
Environment	Indoor
Applications	ON / OFF monitoring of industrial machinery. Coarse-grained power consumption monitoring.

4-20 mA Current Input

Technical Specifications

Sensor Type	4-20 mA current receiver (1 channel 10-bit ADC)
Range	0-20 mA
Accuracy	10-bit resolution ± 2 LSB accuracy
Power	Up to 500,000 transmissions from 2 AA batteries. Wireline power via 12C 3A adapter.
Distance	2 mile range with antenna. Extensible up to 28 miles with high-gain antennas.
Radio Frequency	900MHz for North America & Canada
Transmission Interval	User configurable to a maximum of once per second
Environment	Indoor
Applications	Connect any 4-20 mA sensor to measure force, strain, gauge, pressure, flow, and more.

Smart Plug ON / OFF Actuator

Technical Specifications

Sensor Type	Current draw in the range 0 A to 8 A
Actuator Type	ON / OFF switch for 120VAC, 8A appliances
Power	Plugs into standard US power outlet
Distance	Up to 400 ft / 120 m
Radio Frequency	2.4 GHz
Transmission Interval	User configurable to a maximum of once per second
Environment	Indoor
Applications	Remotely control any appliance. Monitor appliance current draw.

Questions?
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