SmartSense Pro - Datasheet

Leak Detection, Environmental Monitoring and more

FEATURES

- LoRAWAN, Amazon Sidewalk and SenoSpace Framework supported
- Optimized for long range and long battery life
- Multi sensor support to measure and report on Temperature, Humidity, Dew Point, Comfort Level, Leak detection in various setups, door and window monitoring and device tracking
- Extendibility via headphone jack with support for Moisture Sensing Rope, Moisture Sensing Probes, and other future sensors such as pipe pressure and multiple temperature probes
- Toolless battery replacement system for quick and easy maintenance

SMARTER SENSING

Introducing SmartSense Pro, a revolutionary wireless sensor, the ultimate solution for comprehensive environmental monitoring. This state-of-the-art device goes beyond traditional sensing capabilities, offering a wide range of features to ensure the safety, security, and comfort of your space.

With advanced sensors for temperature and humidity our sensor provides invaluable insights into your environment's conditions. Monitor and maintain optimal conditions for sensitive equipment, storage facilities, or even critical healthcare environments. Receive real-time alerts and take proactive measures to prevent damage or ensure ideal conditions for your specific requirements.

But that's not all – SmartSense Pro excels in leak detection, a crucial aspect of facility management and protection. Equipped with precision pins, it swiftly detects leaks on various surfaces, allowing you to take immediate action to prevent water damage, mold growth, or other potentially costly consequences. Use it to safeguard server rooms, basements, plumbing systems, or any area prone to leaks.

Sensor Specifications

Type	Description		
Sensor Type	Amazon Sidewalk Leak Detection / Environmental	LoRAWAN Multi-Sensor	SenoSpace Framework Multi-Sensor
Part Number	SSP-AS-1-US	SSP-LW-1-US	SSP-SS-1-US
Wireless Framework			
Amazon Sidewalk	*		
LoRAWAN		*	
SenoSpace Framework			*
BLE		(Config Only)	*
Power			
Battery Powered	*	*	*
Externally Powered		(Optional)	(Optional)
Battery Type	2 X ER14505		
Toolless Replaceable	Yes		
Battery Life	Up to 10 years	Up to 10 years	Up to 10 years
Physical Dimensions			
Size	84mm * 76mm		
Weight	45g, 92g (with batteries)		
Enclosure Material	ASA 957 UV Resistant (Outdoor rated)		
Mounting Options	Screw or Double Sided Ahesive		
Sensors			
Temperature	Yes		
Humidity	Yes		
Button Alert	Yes		
Leak Detection - On Board Contact Pins	Yes		
Leak Detection - Moisture Probe Support	Yes (optionally through headphone jack)		
Leak Detection - Moisture Rope Support	Yes (optionally through headphone jack)		
Door/Window/Tamper	No	Yes	
Expansion Port	No	Yes	
Enhanced Environmental Reporting	No	Yes (Dew Point, Comfort Level, Mold Risk)	
Pulse Counting	No	Yes (4ms pulse interval)	
Operating Specs			
Operating Temperature	-40°c to +85°c		
Operating Humidity	0 to 90% (non condensing)		
Temperature Accuracy	+-0.3°c		
Temperature Resolution	0.01°c		
Humidity Accuracy	+- 2%		
Humidity Resolution	0.5%		
Other			
Compliance	FCC, IC, CE		
Warranty	2-years		
Extensive API	Limited	Full Support	

Multi Protocol Support

Supporting LoRAWAN regions: IN865, EU868, AU915, US915, KR920, RU864, and AS923.

SenoSpace Framework running at 920/921MHz

Amazon Sidewalk support for BLE and LoRA for maximum range

Extensive API

Large downlink command support to customize functionality and tailor each sensor to the exact requirements for each deployment. Adjust thresholds and intervals.

Expansion Port

Future proof design with an expansion port headphone jack that provides the ability to connect external sensors such as pipe pressure sensors, Single or multiple temperature probes.

Through the Expansion Port, SmartSense Pro can be powered externally in applications where battery replacement would be difficult or in cases where the transmit interval is short, requiring too frequent battery replacements.

Support

SmartSense Pro was designed for flexibility during installation and ease of use in troubleshooting and diagnosing problems whether hardware, software, network or range related.

General support is available at support@senospace.com