





creative minds connecting people, objects and data: the professional IoT & business automation services!





it's time to change the way you think about agriculture!

DOMUS allows you to manage your farm using IoT technologies to increase the quantity and quality of products while optimizing the human labor required by production.



easily adaptable!

DOMUS is easily adaptable and an easy to install IoT toolset than can be deployed in minutes, no tech savvy





enabling smart farming with IoT technologies!

The combination of IoT information sources with other technologies such as multispectral images and historical farm data can generate predictive models and simulations that allow companies to improve their practices.







domus capabilities

•Simple and reliable sensors devices with long term battery. Easy to maintain and operate

•Cost effective connectivity costs using LPWAN technology

•Long range connectivity for large farms fields, yet low cost.

•No need for solar panels or any expensive infrastructure on the sensor*

•Single web platform, multiple users. historical data reports for data analysis

•Used configurable smart alerts and notifications.



Easy to install IoT toolset that can be deployed in minutes!

LPWAN comprehensive solution for agriculture featuring up to 10 variables such as temperature, soil, moisture, light, water levels, flow, rain, wind speed, among others.

linkamericalabs.com







air, temperature & humidity sensor SenseCAP Wireless • LORAWAN

	Model	Region	
Product Model	LoRa-G-868-E/4G	European, Africa, Asia (India etc.)	
	LoRa-G-923-E/4G	Japan, Malaysia, Singapore, Brunei, Cambodia, Hong Kong, Indonesia, Laos, Taiwan, Thailand, Vietnam, Peru etc.	
	LoRa-G-915-E/4G	USA, Canada and South America	
	LoRa-G-AU915-E/4G	Australia, etc.	
	Protocol	Based on LoRaWAN v1.0.2 protocol	
LoBo Poromotors	Channel Plan	EU868/US915/AU915/AS923	
Loka Parameters	Power Output	25dBm	
	Sensitivity	-139dBm (SF12BW125)	
	CPU	TI AM3358 Cortex-A8 1GHz	
	System	Linux Debian	
	RAM	DDR3 512MB	
	Memory	8GB eMMC	
	Ethernet	8GB eMMC	
General Parameters	4G Band	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz	
	4G Features	Support non-CA Cat 4 FDD and TDD LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL) LTE-TDD: Max 130Mbps (DL), Max 30Mbps (UL)	

Air Temperature	Range	-40 °C to +85 °C	
	Accuracy	±0.3 °C	
	Resolution	0.1 °C	
	Drift	< 0.03 °C/year	
	Range	0 to 100 %RH (non-condensing)	
	Accuracy	±2 %RH	
Air Humidity	Resolution	1 %RH	
	Drift	< 0.25 %RH/year	
	Product Model	*LoRa-S-868/915/AU915/923-TH-01	
	Microcontroller	Ultra-low-power MCU	
	Support Protocol	Based on LoRaWAN v1.0.2 protocol	
	LoRa Channel Plan	EU868 / US915 / AU915 / AS923	
	LoRa Power Output	16 dBm (EIRP)	
General Parameters	Sensitivity	EU868: -137.5dBm (SF12, BW125KHz) US915/AU915/AS923: -136.5dBm (SF12, BW125KHz)	
	Current Consumption	5µa (sleep mode) 120 mA max(active mode)	
	Communication Distance	2 to 10 km (depending on different antennas and environments)	
	Battery Life	≥ 3 year (upload data center)	
	Battery Voltage	3.6V	



light intensity sensor

SenseCAP Wireless • LORAWAN

Light Intensity	Range	0 to 188000 Lux
	Sensitivity	0.045 Lux/LSB
	Resolution	0.045 Lux
	Product Model	LoRa-S-868/915/AU915/923-Light
	Microcontroller	Ultra-low-power MCU
	Support Protocol	Based on LoRaWAN v1.0.2 protocol
General Parameters	LoRa Channel Plan	EU868 / US915 / AU915 / AS923
	LoRa Power Output	16 dBm (EIRP)
	Sensitivity	EU868: -137.5dBm (SF12, BW125KHz) US915/AU915/AS923: -136.5dBm (SF12, BW125KHz)
	Current Consumption	5µa (sleep mode) 120 mA max(active mode)
	Communication Distance	2 to 10 km (depending on different antennas and environments)
	Battery Life	≥ 3 year (upload data center)
	Battery Voltage	3.6V
	Battery Capacity	19Ah (Non-rechargeable)
	IP Rating	IP66
	Operating Temperature	-40 °C to +85 °C
	Operating Humidity	0 to 100 %RH (non-condensing)
	Device Weight	288g



CO2 sensor SenseCAP Wireless • LORAWAN

Parameters Condition Value Range 0 to 40000 ppm -400 to 10000ppm ±(30 ppm + 3 %MV) Accuracy Air Temperature Resolution 1 ppm T = 0 to 50°C Temperature Stability ±2.5 ppm / 400 to 10000 ppm Product Model LoRa-S-868/915/AU915/923-CO2-01 Microcontroller Ultra-low-power MCU Support Protocol Based on LoRaWAN v1.0.2 protocol LoRa Channel Plan EU868 / US915 / AU915 / AS923 LoRa Power Output 16 dBm (EIRP) EU868: -137.5dBm (SF12, BW125KHz) Sensitivity US915/AU915/AS923: -136.5dBm (SF12, BW125KHz) 5µa (sleep mode) Current Consumption 120 mA max(active mode) **General Parameters** 2 to 10 km (depending on different **Communication Distance** antennas and environments) Battery Life \geq 3 year (upload data center) Battery Voltage 3.6V Battery Capacity 19Ah (Non-rechargeable) IP Rating IP66 (Sensor Node) Indoor (Sensor Probe) * Operating Temperature -0 °C to +50 °C 0 to 95 %RH **Operating Humidity** Device Weight 319g



barometric **pressure sensor** SenseCAP Wireless • LORAWAN

Barometric Pressure	Parameters	Condition	Value	
	Range	-	300-40000 hPa	
	Accuracy	300 to 1100hPa 25 to 40°C	±(30 ppm + 3 %MV)	
	Resolution	-	1 pa	
	Temperature Coefficient Offset	900 hPa 25 to 40°C	1.5 Pa/K	
General Parameters	Product Model	LoRa-S-86	8/915/AU915/923-Baro-01	
	Microcontroller	Ultra-low-p	ower MCU	
	Support Protocol	Based on I	-oRaWAN v1.0.2 protocol	
	LoRa Channel Plan	EU868 / U	EU868 / US915 / AU915 / AS923	
	LoRa Power Output	16 dBm (E	IRP)	
	Sensitivity	EU868: -13 US915/AU -136.5dBm	87.5dBm (SF12, BW125KHz) 915/AS923: (SF12, BW125KHz)	
	Current Consumption	5µa (sleep 120 mA ma	mode) ax(active mode)	
	Communication Distance	2 to 10 km antennas a	(depending on different and environments)	
	Battery Life	≥ 3 year (u	pload data center)	
	Battery Voltage	3.6V		
	Battery Capacity	19Ah (Non	-rechargeable)	
	IP Rating	IP66 (Sensor IP65 (Sensor	Node) Probe)	
	UV Resistance	anti-aging (fro	om rain/sun exposure):	



soil moisture & temperature sensor SenseCAP Wireless • LORAWAN

Soil Temperature	Range	-30 °C to +70 °C
	Accuracy	±0.5 °C
	Resolution	0.1 °C
Soil Moisture	Product Model	LoRa-S-868/915/AU915/923-Soil MT-01
	Microcontroller	Ultra-low-power MCU
	Support Protocol	Based on LoRaWAN v1.0.2 protocol
	LoRa Channel Plan	EU868 / US915 / AU915 / AS923
	LoRa Power Output	16 dBm (EIRP)
	Sensitivity	EU868: -137.5dBm (SF12, BW125KHz) US915/AU915/AS923: -136.5dBm (SF12, BW125KHz)
	Current Consumption	5µa (sleep mode) 120 mA max(active mode)
	Communication Distance	2 to 10 km (depending on different antennas and environments)
	Battery Life	≥ 3 year (upload data center)
	Battery Voltage	3.6V
	Battery Capacity	19Ah (Non-rechargeable)
	IP Rating	IP66
	Operating Temperature	-30 °C to +70 °C
	Operating Humidity	0 to 100 %RH (non-condensing)
	Device Weight	415g



soil, temperature, VWC & EC sensor SenseCAP Wireless • LORAWAN



19Ah (Non-rechargeable)

IP66

385g

Battery Capacity

Device Weight

IP Rating



soil PH sensor

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Specifications	Range	0-14 pH	
	Accuracy	±0.1 pH	
	Resolution	0.1 pH	
	Product Model	LoRa-S-868/915/AU915/923-pH-01	
	Microcontroller	Ultra-low-power MCU	
Soil Moisture	Support Protocol	Based on LoRaWAN v1.0.2 protocol	
	LoRa Channel Plan	EU868 / US915 / AU915 / AS923	
	LoRa Power Output	16 dBm (EIRP)	
	Sensitivity	EU868: -137.5dBm (SF12, BW125KHz) US915/AU915/AS923: -136.5dBm (SF12, BW125KHz)	
	Current Consumption	5µa (sleep mode) 120 mA max(active mode)	
	Communication Distance	2 to 10 km (depending on different antennas and environments)	
	Battery Life	≥ 3 year (upload data center)	
	Battery Voltage	3.6V	
	Battery Capacity	19Ah (Non-rechargeable)	
	IP Rating	IP66	
	Operating Temperature	-20 °C to +50 °C	
	Operating Humidity	0 to 100 %RH (non-condensing)	
	Device Weight	594g	



value business added

Quick turnover from prof of concept up to scalability with bigger gains

Reduce the full cost of a sensing infrastructure and project TCO

- Improve your yields making smart decisions based on true data
- Efficient management of your water and land resources
- Optimize your agricultural supplies application.



simplicity

No technical worries, simple battery sensors



coverage

Big fields to cover: long range coverage LPWAN network



versatility

Many different things to monitor: multiple variables & customizable capabilities



scalable

Scale from pilot projects: with scalable costs







creative minds connecting people, objects and data: the professional IoT & business automation services!