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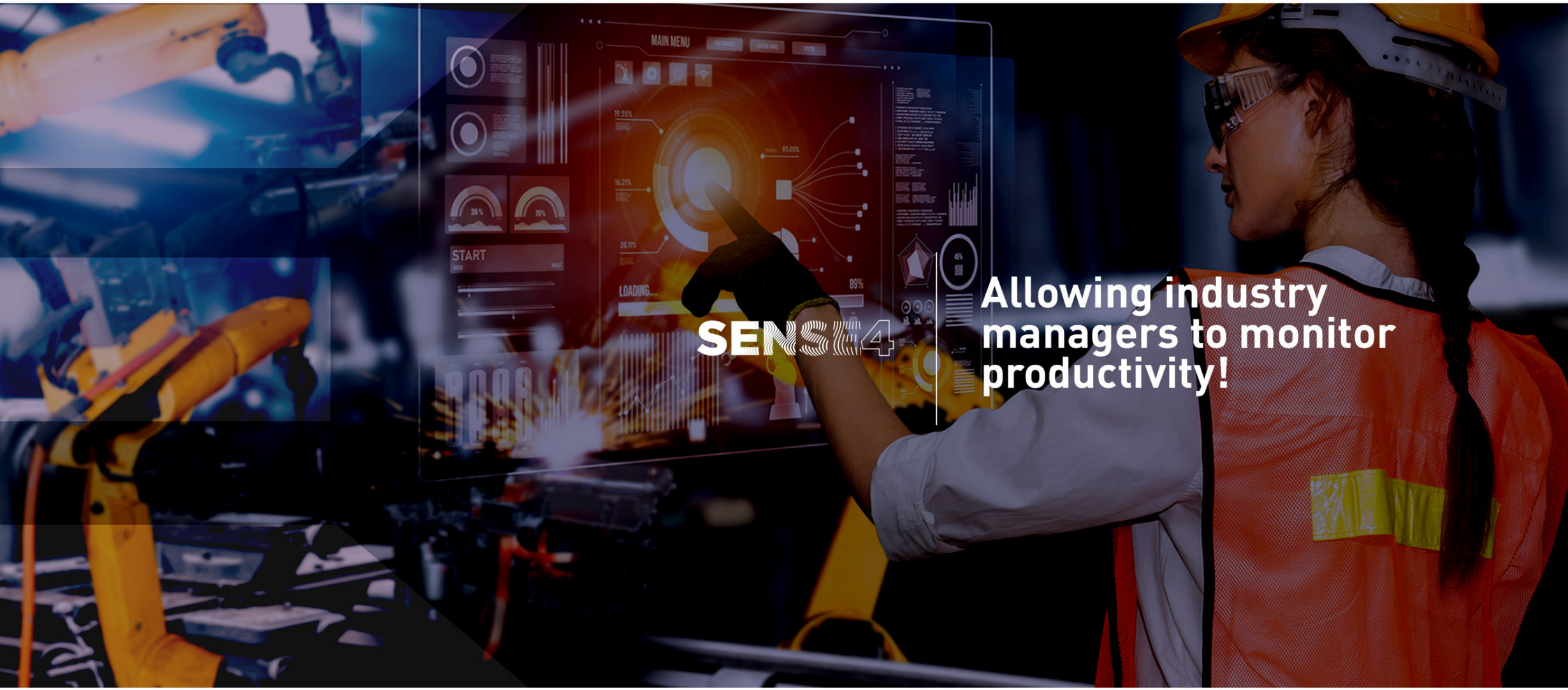
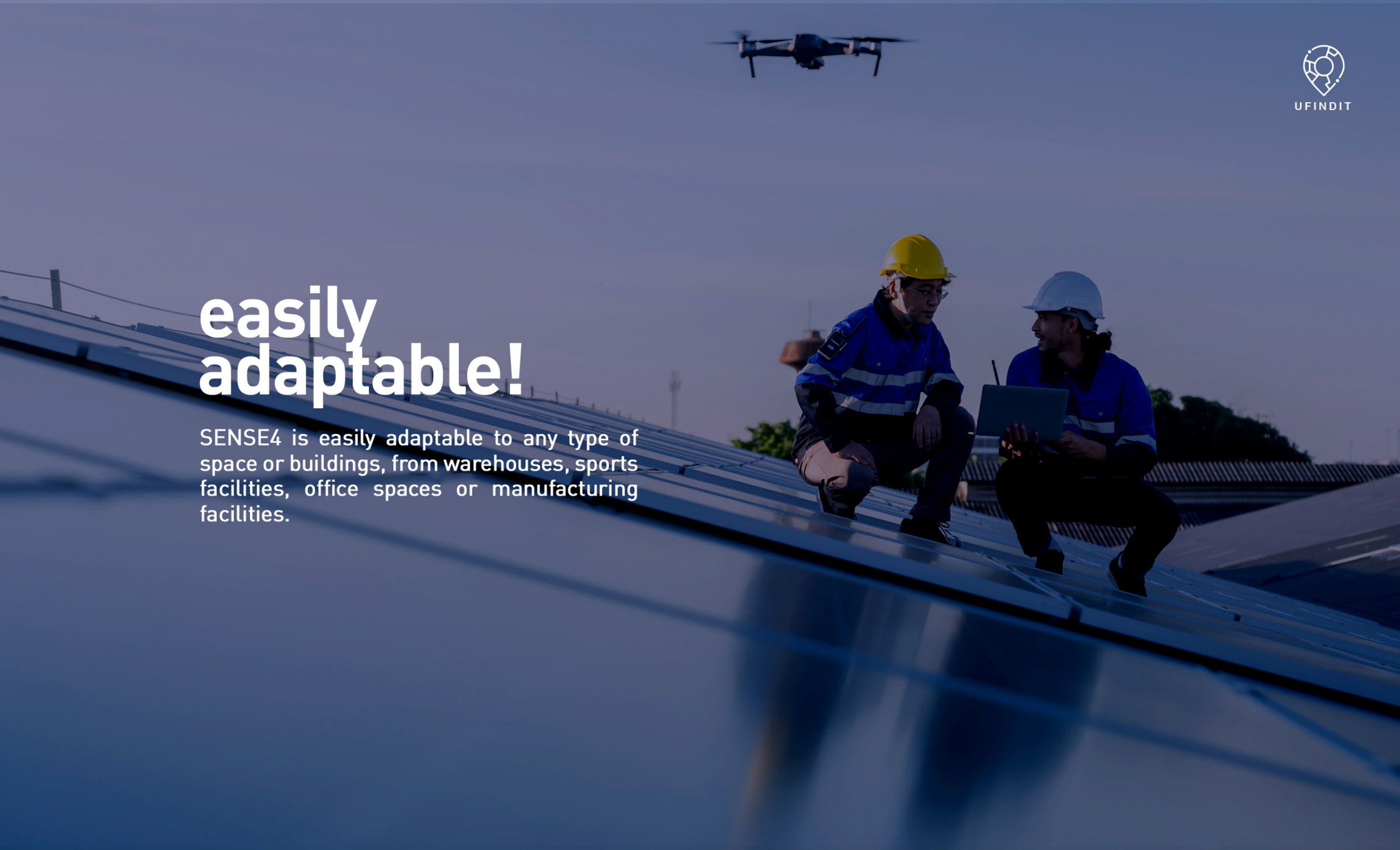


creative minds connecting people, objects and data: the professional IoT & business automation services!

SENSE4

allowing industry managers to monitor productivity!

Sense 4 is a solution based on state of the art Internet of Things, which allows the industry managers to monitor the productivity of their industrial machinery in real time.



UFINDIT

easily adaptable!

SENSE4 is easily adaptable to any type of space or buildings, from warehouses, sports facilities, office spaces or manufacturing facilities.

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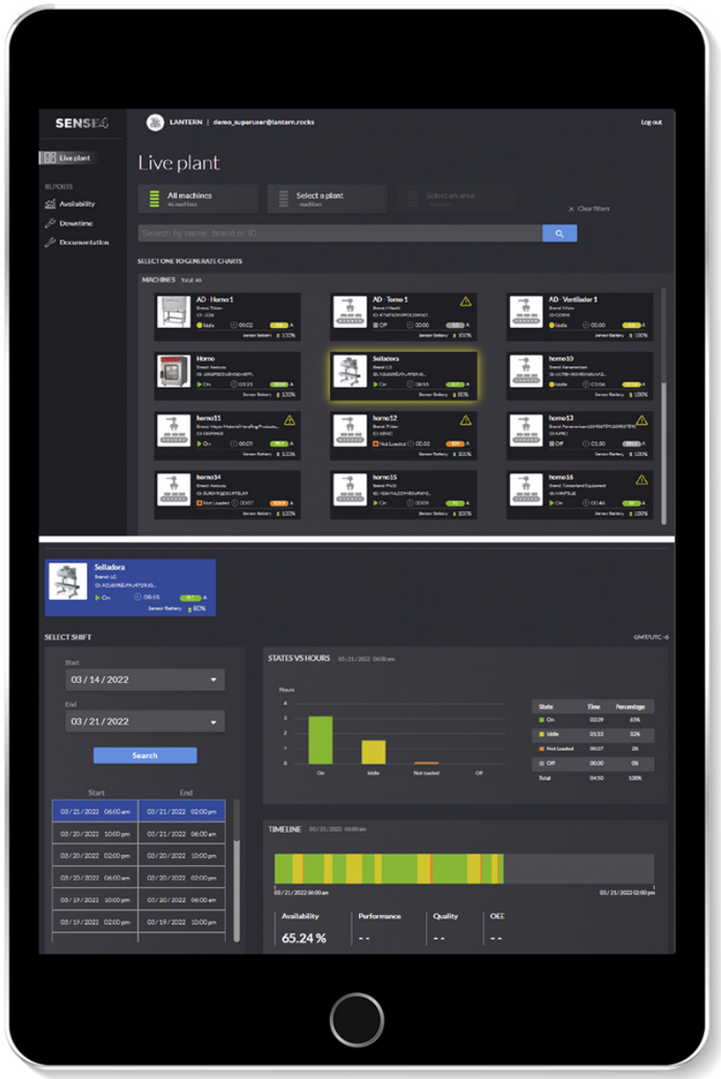
SENSE4

monitor the productivity of your industrial machinery!

Make well informed decisions about how to improve your equipment availability and to reduce your energy bills, while sustaining and improving the profitability.

Sense4 is partnered with GBM

Live plant
Production Plan
Products
Production plan
Maintenance
General
Plant - 4 plant(s)
Area - 8 area(s)
Machines - 12 machine(s)
Apply
Clear filters
Search by machine, production order number or SKU
ACTIVE
COMPLETED
CANCELED
+ Add Product
+ Add Production Plan
SELECT ONE TO SEE THE DETAIL
Sort by
Lote - Producto
Machine: CNC
Expected Output: 205
Edit
B Lote - Producto
Actual Output: 205 of 300
E Lote - Producto
Lote 001 - CNC1 Tornillo 3x2
Back
EXPECTED OUTPUT
EXPECTED CONSUMED TIME
EXPECTED RATE
REAL OUTPUT
REAL REJECTED UNITS
REAL RATE
PRODUCTION DATA
SUMMARY
KEY PERFORMANCE INDICATORS
Select one option to generate charts
75%
OEE
Availability 63%
Performance 50%
Quality 84%
Select one shift to filter the charts
SHIFT A
SHIFT B
SHIFT C
SHIFT D
90%
IBM Maximo Asset Management
Approve Work (4)
Assign Owner (1)
Mantenimiento de hornos
Mantenimiento Selladora
Mantenimiento falla en torno
Approve
Assign owner
Plans
Assignments
Comments
Attachments
Reported Work
Labor (2)
Items and Materials (3)
Services (0)
Tools (4)
Cambiar sellos internos
Long description
Estimated duration:



solution capabilities

- Proximity-based indoor position
- Custom 3D map by each facility or floor
- Geomap for multisite operations
- Easy filtering asset search
- User self-defined rules and notifications
- Virtual fences by areas
- Email reports and alert notificacions
- Battery watch alarms
- Sensors data monitoring for many different BLE Tags
- Convenient adherable Bluetooh (BLE) tags
- Threshold alerts for sensors data
- Inter-connection with third parties platform
- Integration with user-owned asset inventory

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monitor machinery productive areas & company's productivity levels live!

Information is uploaded to SENSE 4 cloud-based servers and is available for machine learning analysis immediatly

BLE wifi gateway : specs

Radio	WiFi	IEEE 802.11 b/g/n 2.4 GHz
	WiFi Power	18 dBm
	WiFi Rate	300 Mbps
	Bluetooth	Bluetooth 4.x/ 5.0
	BLE Protocols	iBeacon,Sensor Data, Custom Data
	BLE Transmit Power	-40dBm, -20dBm, -16dBm -12dBm, -8dBm, -4dBm, 0dBm, 4dBm
	BLE Rate	1Mbps,2Mbps
	Receiver Sensitivity	-108 dBm
	Range	Up to 300 meters
Power Supply	DC	5V - 1A MicroUSB
	PoE	02.3af PoE standard
Others	Size	Ø 150 × 36 mm(Built-in antenna)
	Weight	180g
	Case Material	ABS Plastic
	CPU	575 MHz 32-bit Application Processor
	Memory	128 MB 16-bit DDR2 RAM
	Upgrade	Ukey / OTA
	Ports	2 USB 2.0 Host Controller, TF Card Slot for data backup, 10/100 Ethernet
	Protocol Support	HTTP(SSL/TLS), MQTT(SSL/TLS)/TCP
	Operating Temperature	De -25°C a 65°C
	Warranty	1 year

	Sending information to the platform through secure MQTT protocol.
	LED color ring provides status information.
	Power supply 5V DC / 500mA, supports PoE power supply via ethernet port.
	Multiple connectivity options, Wifi, Ethernet, 3G / 4G (with additional USB adapter).
	Multiple WiFi security modes, support AP mode, 2.4GHz WiFi
	Average coverage 75m/250ft around (may vary depending on wall material and construction elements)
	Supports up to 150 sensors simultaneously inside the coverage area.
	With uSD slot to increase information storage possibilities.
	Very simple configuration process, using local web interface.

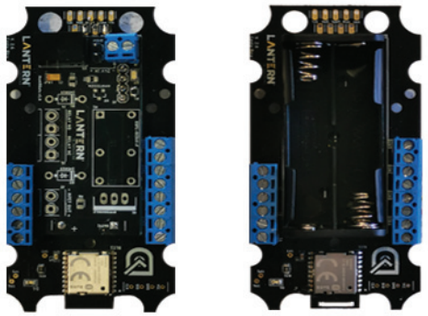
we create it, so you can

BRING IT TO LIFE

IOT BLE SENSOR

BLX 01 UNIVERSAL IOT DATALOGGER

This device integrates and stores multiple IoT sensors variables and sends them via Bluetooth Low Energy (BLE)



Lantern Technologies is a software and hardware development agency specialized in providing services and products, through cutting edge technologies such as Cognitive Computing, Internet of Things and Machine Learning

key features

- 4 digital inputs
- 3 analog inputs
- Bluetooth 5.0 technology
- 512K Flash and 64K RAM
- Max. +4dBm transmission power
- I2C communication protocol interface.
- UART communication protocol interfac (slave / master option)

Multi variables sensing

Plug your own compatible sensor

Code your own programmable logic

smart city

Bluetooth enables the automatic, centralized control of a building's essential systems, including heating, ventilation, air conditioning, lighting, and security.

smart industry

Bluetooth sensor networks deployed at scale across a factory floor enable real-time monitoring of system performance and tolerances, creating intelligent machines and whole manufacturing lines that can predict and problem solve.

monitoring tasks

Home appliances or Industrial machinery current consumption monitoring.

3.3V/5V/24V signal reading to monitor the logic states of devices machines or count events.

operation	analog inputs	digital inputs	communic. ports	power source
OPERATION VOLTAGE 2.3 V to 3.7V (with battery) **OPERATION FREQUENCY** 2400-2483MHz **OPERATION CURRENT** Up to 40mA **SLEEP CONSUMPTION** Less 1uA **TRANSMISSION DISTANCE** Max. 100 meters (330 Feet) **DIMENSIONS** 42mm * 81mm **WIRELESS TECHNOLOGY** BLE 5.0 **CHIPSET** Nordic nRF52832 (Cortex M4) **TEMPERATURE RANGE** -15C to +75C	**INPUT CURRENT (DEFAULT*)** 50mA, 80mA, 100mA or 200mA **INPUT VOLTAJE (WITH LITTLE MODIFICATION)** 0-4.191V / Preamp option x2, x4, x8 **INPUT LOOP CURRENT (WITH LITTLE MODIFICATION)** 0 - 25 mA (Industrial Standard) ***It includes a 100A/50mA current transformer by default, but it ispossible to use different configurations by changing some resistors.**	**INPUT CURRENT (MAX)** +-20mA **INPUT VOLTAGE** 3.3V, 5V or 24V (AC or DC) **OPTOCOUPLER ISOLATION** Yes	**I2C** 100KHz, 400KHz **UART TTL** 3.3V or 5V (RS232 with additional module) **1-WIRE** Available	**BATTERY POWERED OPTION** 2x AAA (Energizer Ultimate recommended) **5V TO 24V OPTION** With additional power module

value business added

- Increase your overall productivity in your company by reducing inefficiencies.
- Save on your energy bills optimizing your production times.
- Get the most out of your equipment value depreciation by increasing its production availability
- Save time on your administrative team with automated real time-reports
- Take prompt action when inefficiencies happen. Not a month later!
- Take timely continuous improvement decisions based on accurate data.
- Save on predictive maintenance cycles using machine's real usage data.

supervise

Supervise your equipment in real time with a modern interface, totally visual and compatible with mobile devices.

connect

Automatically connect your administrative and production software directly to the Sense 4 platform for an end-to-end experience.

consult

Consult last periods, last turns and compare the performance of the machine through a dashboard.

drill down

Drill down into root cause analysis by company, area, machine, and period using Sense 4 analysis tools.

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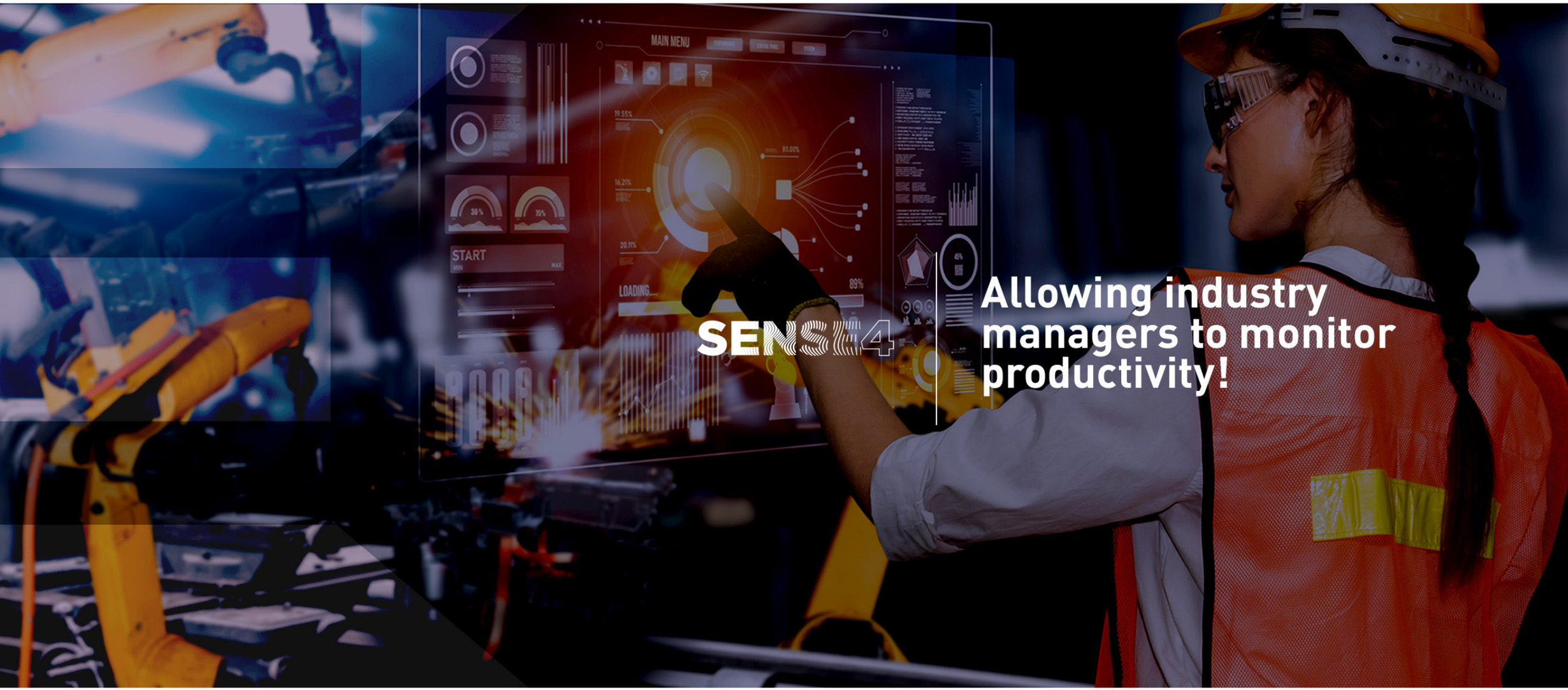

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