

ISURLOG 2

Smart self-powered IIoT
Cloud based data logger

ACCESSIBLE
ANYTIME
ANYWHERE

Rechargeable
battery powered

IP66 /IK 08
-40 to +85 °C

On the
cloud data

Detachable
connectors

4 analogue inputs
4 digital inputs
2 relay outputs

IoT-NB/LORA
connectivity

Ext. Dim. (mm):
160x80x86



ISURLOG 2 (2nd generation) IIoT data logger is based on the cutting

edge SP-IIoT-SAP (Self Powered Industrial Internet of Things Sensor Access Point) technology, offering the next outstanding features:

- ✓ Operates using on board rechargeable batteries, guaranteeing 400 days of minimum autonomy (considering 1 analogue input and 1 counter log cloud uploading every 15 minutes).
- ✓ **Anytime available** Telegram messages based remote user interface for:
 - User parameters configuration.
 - Alarms management.
 - Real time values and states monitoring.
 - On the cloud logged data download and management.
 - Remote diagnostics and reboot.
- ✓ 4 x 4-20 mA analogue inputs, active or passive loop (supply provided by the unit).
- ✓ 4 x potential free digital inputs for counters, alarm signals and operational status.

- ✓ 2 x solid state relay digital outputs, for on field actuators control.
- ✓ outdoors deployment polycarbonate plastic case design features UV protection, IP66 / IK08 protection degree and -40 to +85 °C extended temperature range.
- ✓ on the cloud logged data hosting.
- ✓ UDP data streaming to third party devices.
- ✓ IIoT-NB and LORA connectivity options.

ISURLOG 2¹ is based on **SP-IIoT-SAP** (*Self Powered Industrial Internet of Things Sensor Access Point*), thus offering:

- Rechargeable battery power supplied.
- Data monitoring and device management from/to any smart terminal.
- General purpose input/outputs allowing the connection of practically any sensor.
- On the cloud data hosting.
- IIoT-NB and LORA connectivity options.

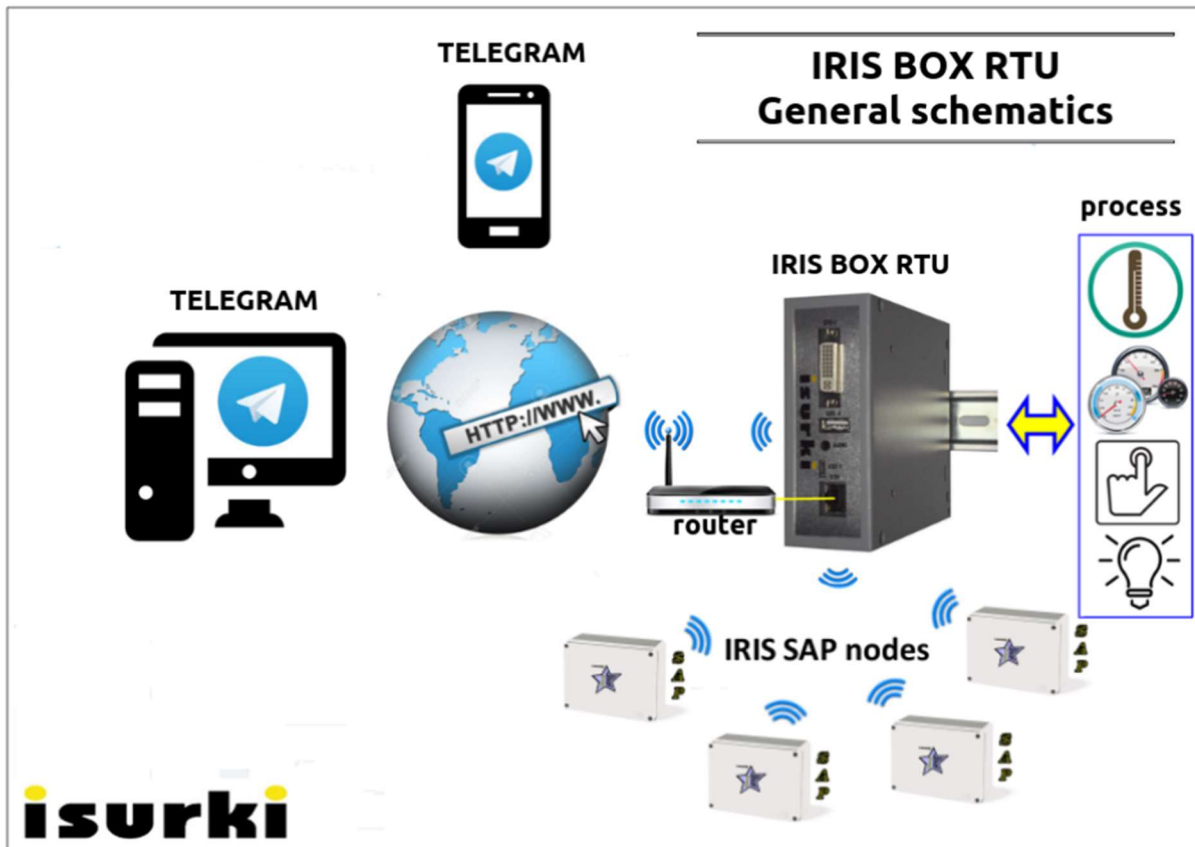


↑ **ISURLOG 2** on-field unit for drinkable water distribution network pressure monitoring



⇐ ↑ **ISURLOG 2** on-field unit for HVAC network temperatures monitoring at a health facility.

¹ As a result of a constant evolution, here in stated characteristics can be upgraded and changed without previous notice to customer. Please ask for the last datasheet version contacting directly with our company.

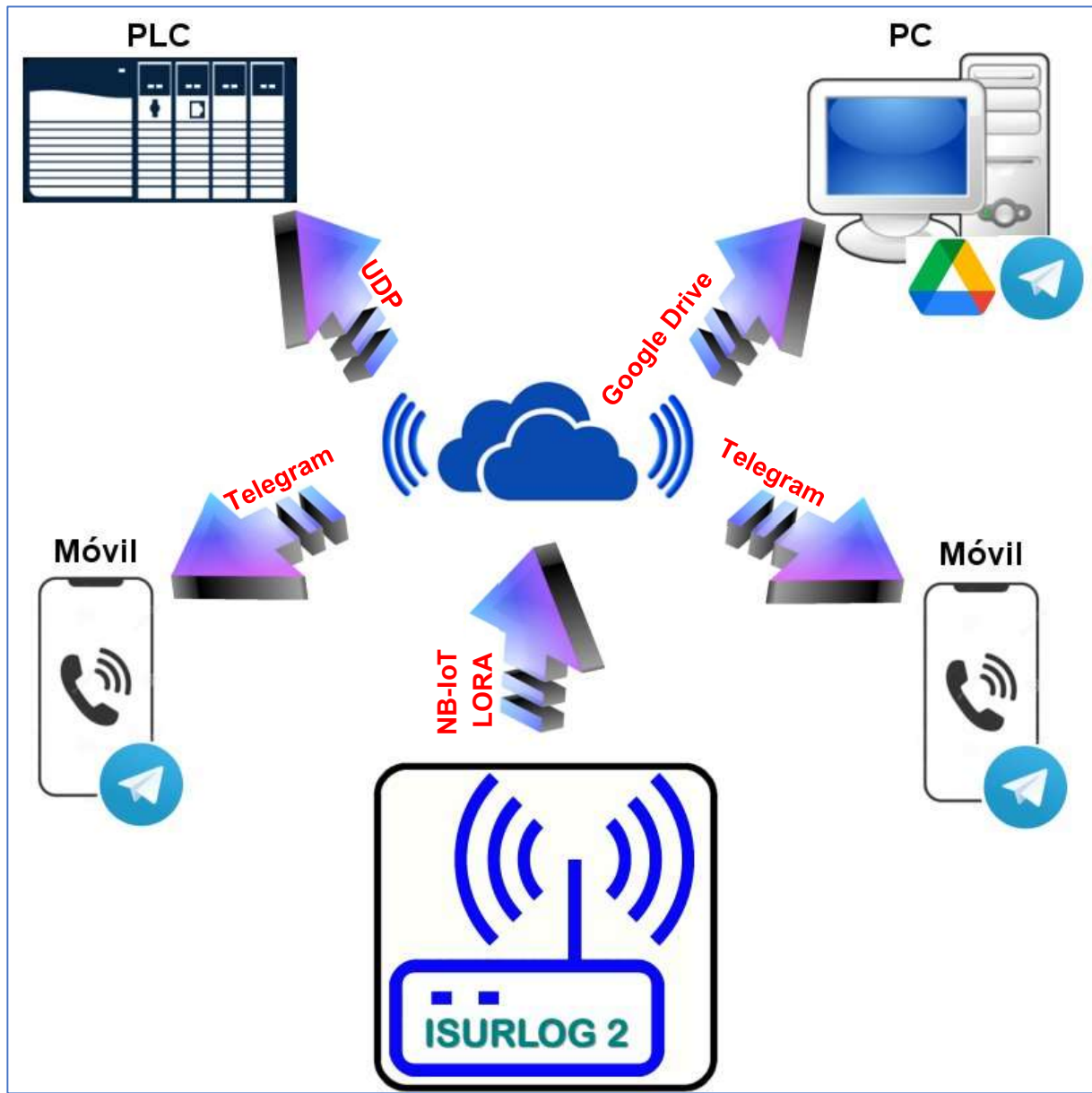


ISURLOG 2 may be deployed as either stand-alone units (as shown above) or as a decentralized distributed periphery of the IRIS IIoT ecosystem (like a wireless sensor access point of the IRIS BOX RTU neural network controller and gateway, providing remote access to a wide geographical area).

ISURLOG 2 uploads logged data files to the cloud in a user-configurable interval, ranging from 5 up to 60 minutes.

Logged data files are Google Drive accessible in a .csv format, thus providing direct importation from any datasheet application.

ISURLOG 2 includes easy user-configurable UDP links to third party industrial automation devices, such as PLCs, PCs, controllers... automatically transmitting ASCII strings containing the last logged parameters values (date;time;parameter#1;...;parameter#n). Therefore, **ISURLOG 2** virtually acts as a wireless decentralized I/O unit of any smart device including a UDP port.



TECHNICAL SPECIFICATIONS


- Power supply:
 - 1 integrated LiPo battery pack (second pack available as option). Embedded USB battery charger.
 - > 1 year of autonomy (with 1 analogue input + 1 counter input, data uploading to the cloud every 15 minutes). 15 minutes data uploading interval, double pack mounted).
 - > 2 years of autonomy (with 1 analogue input + 1 counter input, data uploading to the cloud every 12 hours).
- Connectivity options (excluded):
 - LTE-NB IoT (GSM/GPRS network coverage required). 698–960 MHz band with 2'6 dBi gain. 1710–2200 MHz band with 4'4 dBi gain. Flexible antenna integrated.
 - LORA (**NO** GSM/GPRS network coverage required) 868 MHz.

isurki
Instrumentación-y-control

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- **Field devices integration:**
 - 4 x 4/20mA analogue inputs, active or passive sensors (12Vdc power supplied by unit).
 - 2 digital inputs for counters (voltage free contact).
 - 2 digital outputs (solid state relays, 2 Amps).
- **Security:** AES encryption / SRP Secure Remote Password protocol.
- **Physical:**
 - polycarbonate plastic case. External dimensions: 160x80x86 mm.
 - UV protection, IP66 / IK08 protection degree.
 - -40 to +85 °C extended temperature range.

ORDER CODE	
Description	Reference
Self powered IIoT data logger	ISURLOG 2
xx (NB=NB-IIoT, LO=LORA) = Connectivity	- xxC
x (0,1,2,3,4) = number of 4 to 20 mA analogue inputs.	- xEA
x (0,2,4) = number of counter digital inputs (voltage free contact).	- xED
x (0,2) = number of digital outputs (solid state relay, 2 amps).	- xSD
x (1,2) = number of LiPo battery packs.	- xPB
x (0,1) = 1: SMA-F connector in plastic case for external antenna.	- xAN
x (0,1) = 1: Gauge pressure sensor, range 0 – 16 bar ² , 4/20 mA 2 wire output signal, 8-30Vdc power supply, AISI316L case, 2 m cable fo4r connection with ISURLOG 2 included, IP67, ¼" M process connection.	- xSP 

² Other available ranges on request: 0-6, 0-10 gauge bar.