1. Description

The **LS10** is the simplified version of the LS range. This Data Logger is more specifically suited to facilities equipped with **a single meter** or installations requiring **only one DI**.

The product's specific features are as follows:

☑ Hardware:

The LS10 case possesses the **same characteristics as LS42** (identical case dimensions, built-in antenna, same IP68 protection level, same autonomy, etc.); only the "2-conductor" connection cable for DI 1 is specific.

LS10 does not allow for connection to an external antenna, no does it manage "in/out" meters or "4-20 mA sensor" measurements.

☑ Communications:

- If the serial number is equal to or greater than 10.910.xxxxx, LS10 communicates via **Bluetooth** and can communicate via **GPRS** with a Centralisation System (and in **3G** from serial number 41.910.xxxxx onwards).
- Remote LS10 **GPRS or 3G** configuration read/write is possible from the SOFTOOLS directory, via the Web Server.
- If the Serial Number is less than 10.910.xxxxx, LS10 does not communicate via Bluetooth. Configuration updates and diagnostics run via **SMS** and updating the LS10 software require it to be returned to the factory.

☑ Data acquisition and control:

LS10 can connect **only one digital input:**

- for managing one "**Meter on DI**"; with a configuration of **4 thresholds** to check the average flow calculated from this meter with possibility to configure **2 warning messages** to be sent by SMS to a mobile phone in the event of threshold overrun.
- or for managing a "**DI**"; for simple remote-signalling.

The other LS10 data are calculated or diagnostic data:

	SCADA Central Station configuration	
Calculated data	1	Metering 1 or DI-Signalling 1
	7	Threshold 1
	8	Threshold 2
	9	Threshold 3
	10	Threshold 4
	15	Flow 1
	19	Daily metering 1
	23	Daily volume 1
	27	Min. daily flow 1
	31	Max. daily flow 1
Diagnostic data	35	Nighttime flow 1
	39	Reception level
	40	PC communications counter
	41	Energy consumed
	44	Remaining battery life

In the case where LS10 manages DI-Signalling, no data is calculated (threshold, reading, flow).