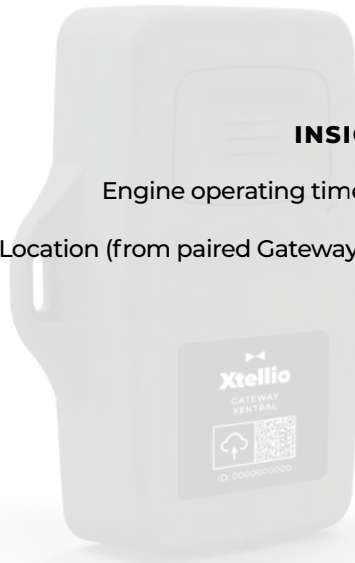# Hour
Xense

For how long has the machine been running?

At what time was the quipment in use?

When and for how long has the pump run?

INSIGHTS:

Engine operating time

Location (from paired Gateway)

FEATURES:

Low-power wireless technology

Battery lifetime up to 10 years

CE certified

32 x 21 x 24 mm / 1.3 x 0.8 x 0.9 in

Xtellio Hour Xense provides comprehensive control over the usage of your light equipment/machines. It offers insights into total engine hours through spark plug sensing, tailored for machines with a 2/4 stroke engine. To transmit its data to the cloud, it requires pairing with an Xtellio Gateway Xental *(sold separately and can be paired with up to 10 Xenses)*. The gateway can be conveniently placed in a garage or depot, where equipment with Hour Xenses returns randomly. When the gateway transmits, it can also provide GPS location data, enabling you to monitor where the equipment's is located, particularly useful if the garage/depot is situated in the field at a construction site.

Xtellio
Data, at your service

MADE IN DENMARK

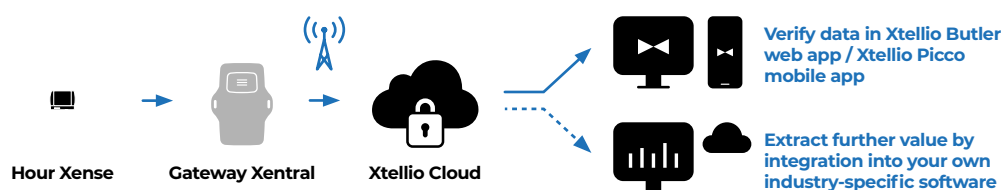**Contact us:**
sales@xtellio.com
+45 3226 9200
xtellio.com

How it works

Default Operation

The Xtellio Hour Xense measures engine operating time by detecting spark plug activity in gasoline-powered engines.

When paired with a Gateway Xentral (sold separately), all collected data is securely transmitted to the Xtellio Cloud via an embedded SIM module, utilizing NB-IoT or LTE-M networks to ensure reliable connectivity—even in areas with limited coverage.

Hour Xense — Gateway Xentral — Xtellio Cloud

Verify data in Xtellio Butler web app / Xtellio Picco mobile app

Extract further value by integration into your own industry-specific software

From the Xtellio Cloud, data is either integrated into your existing systems via Xtellio's APIs or accessed through the Xtellio Butler web app or Xtellio Picco mobile app — all included as part of your Xtellio Xervice.

Default settings

Xtellio Hour Xense:
Sensor measurement: **Every 10 seconds**
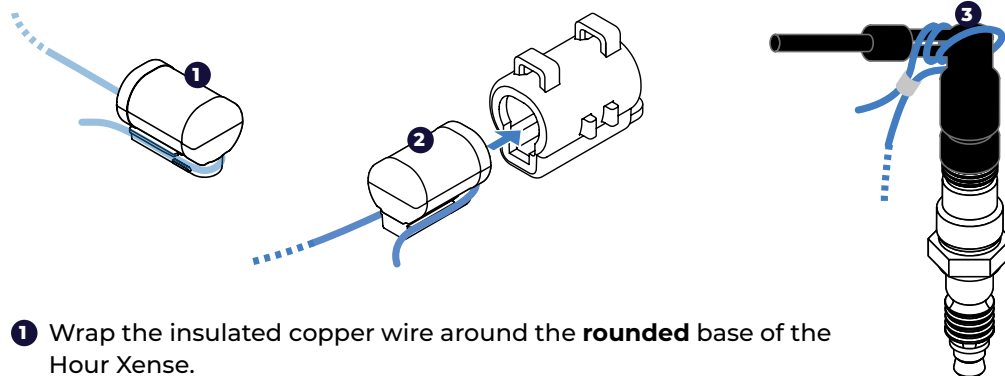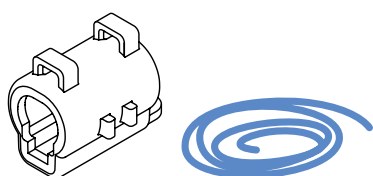
Xtellio Gateway Xentral *(sold separately)***:**
Cloud data transmission: **1 per day**
GPS location measurement: **Disabled**

Configurable with Business or Premium subscription.

Holder and wire

For the Hour Xense, a silicone holder and an insulated copper wire are included and required for installation.

❶ Wrap the insulated copper wire around the **rounded** base of the Hour Xense.

❷ Insert both parts into the included silicone holder.

Use zip ties, screws, or both to **ensure the holder is securely fastened and can withstand the machine's vibrations.**

❸ Wrap the long end of the wire **three times** around the spark plug holder and secure it with a zip tie.
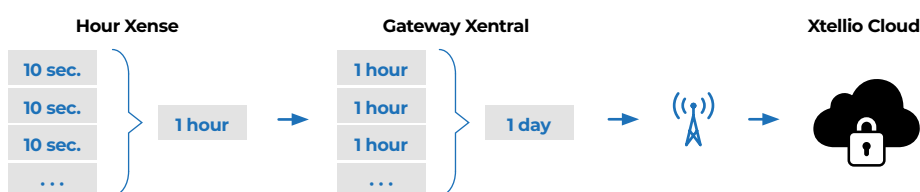
Technical specification

P/N:	90056001
Wireless communication	**Standards:** BLE 5.1 - 2,4 GHz Range: Up to 25 m (82 ft)

Sensors (built-in)

Engine operating time: Spark plug sensing in gasoline-powered engines.
Operating time is recorded in 10-second intervals and stored locally.
The accumulated data is transmitted to a paired Gateway Xentral once per hour.

If the gateway is out of range, the device can store approximately 14 days of data (equivalent to 300 data points) and will automatically transmit the stored data once communication is re-established.
Accumulated run hours are never overwritten.

Power	**Battery:** One cell solution: Industrial 3.6V ½AA Lithium Thionyl Chlorid battery. Estimated lifetime with default settings: 5+ years (non-rechargeable battery).
Operating conditions	-20°C to +70°C (-4°F to +158°F)
Certification & Compliance	CE and RoHS
IP Classification	IP64

Mechanical properties

Xense casing

Dimensions: 32 x 21 x 24 mm / 1.3 x 0.8 x 0.9 in
Weight: 18 gr / 0.6 oz (Approx.)

24 mm / 0.9 in 32 mm / 1.3 in 24 mm / 0.9 in 21 mm / 0.8 in