

Packwise Smart Cap Ex

The Packwise Smart Cap Ex is a **plug&play tracking device for liquid containers with precise fill level measurement**. It offers state-of-the-art geolocation and sensors and is perfectly designed for the needs of the process industry. The Packwise Smart Cap Ex is intended for use in potentially explosive atmospheres.



Geolocation

- GPS, Galileo, BeiDou, Glonass
- Wi-Fi (no password required)
- BLE
- Cell-Tower-Triangulation

Connectivity

- LTE-M, NB-IoT, 2G
- Roaming in 150 countries
- Data recovery up to 100 days
- Unlimited data volume
- OTA firmware upgrades

Sensors

- Filling level
- Temperature
- Activity monitoring
- Shock detection
- Manipulation detection
- Other BLE sensors can be added

IECEX Marking

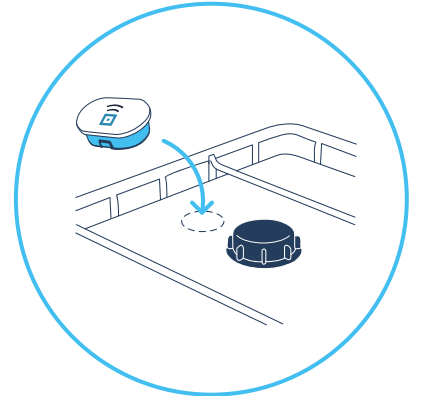
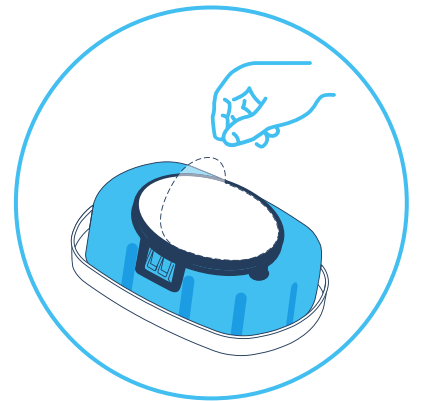
IECEX IBE 22.0019X
Ex ib IIC T4 Gb
Ex ib IIIC T135 °C Db

IBExU22ATEX 1071X
 II 2G Ex ib IIC T4 Gb
 II 2D Ex ib IIIC 135°C Db

ETL22CA105162187
Cl. I, Zn. 1, AEX ib IIC T4 Gb
Cl. II, Zn. 1, AEX ib IIIC 135°C Gb

Mounting

Plug&Play
mounting via
adhesive tape



Mechanics and Design

Antennas

Proprietary high performance PCB antennas

Size

100 x 46 x 142 mm

Weight

300 g

Color

Blue, white

Casing

UV-stabilized polycarbonate (lexan 945A)
Flame retardant

Water and dust resistance

IP69

Relative humidity

0 ... 95%

Operating temperature

-20 °C to +70 °C

Storage temperature

20°C to ~+60°C

Battery

Battery Primary 3.7 V lithium thionyl chloride (Li-SOCl₂)

- Up to 10 years battery life depending on type of use (measurement and transmission intervals) and environmental conditions (temperature, mobile connection and humidity)
- At least 1800 radio transmissions over a lifetime of 5 years at usual energy consumption

Certifications

Regulatory

- FCC
- CE
- EN 62368-1
- EN 62311
- 1999/519/EC
- EN 301 489-17
- EN 301 489-1
- EN 301 489-3
- EN 301 489-19
- Draft EN 301 489-52
- Draft EN 305 550
- EN 303 413
- EN 301 511
- EN 301 908-13
- EN 300 328
- EN 61000-4-2
- EN 61000-4-3
- EN IEC 60079-0
- EN 60079-11

Security

- Data encryption between device and backend with DTLS standard
- Device unique encryption keys
- Encrypted firmware