

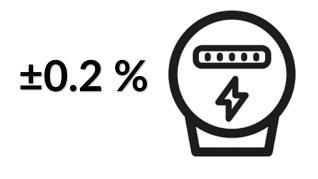


EGK-LW22PLG

Instantaneous reading of active, reactive and apparent power,

**BLE** 5.0

voltage and current

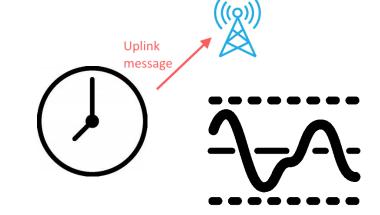


Class C LoRaWAN® 1.0.2, EU868

Bluetooth LE 5.0 interface for configuration, data reading and FW upgrade

Time interval based or thresholds based

uplink



Weekly schedule for time-Based ON/OFF\*

\*Coming soon





Bicolor led (green, blue),

for output and LoRaWAN

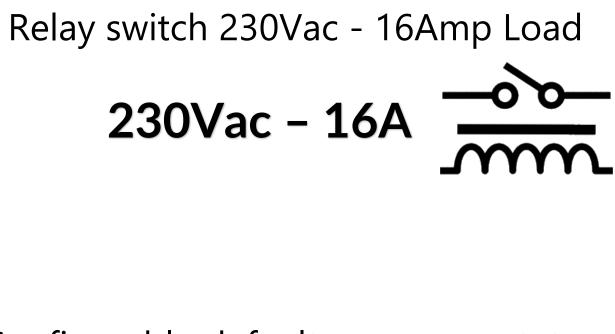
status





# LoRaWAN® Energy Meter plug with On/Off

Embedded antenna



Configurable default power-on status

Pushbutton for forcing transmission or Re-Join, ON/OFF output (lockable),

Overload protection



Rechargeable battery for

powerline outage detection













# Up to 10 different data for each message:

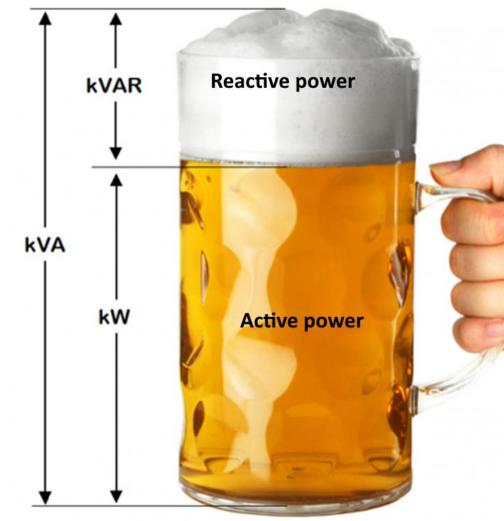
- Active energy (Wh)
- Reactive energy (VARh)
- Apparent energy (VAh)
- Active power (W)
- Reactive power (VAR) •
- Apparent power (VA)  $\bullet$
- Voltage (V/10 RMS)
- Current (mA RMS) ullet
- Period (us) ullet
- Seconds of running (s) •

#### Active Power (W) P

 $\cos \phi =$ 

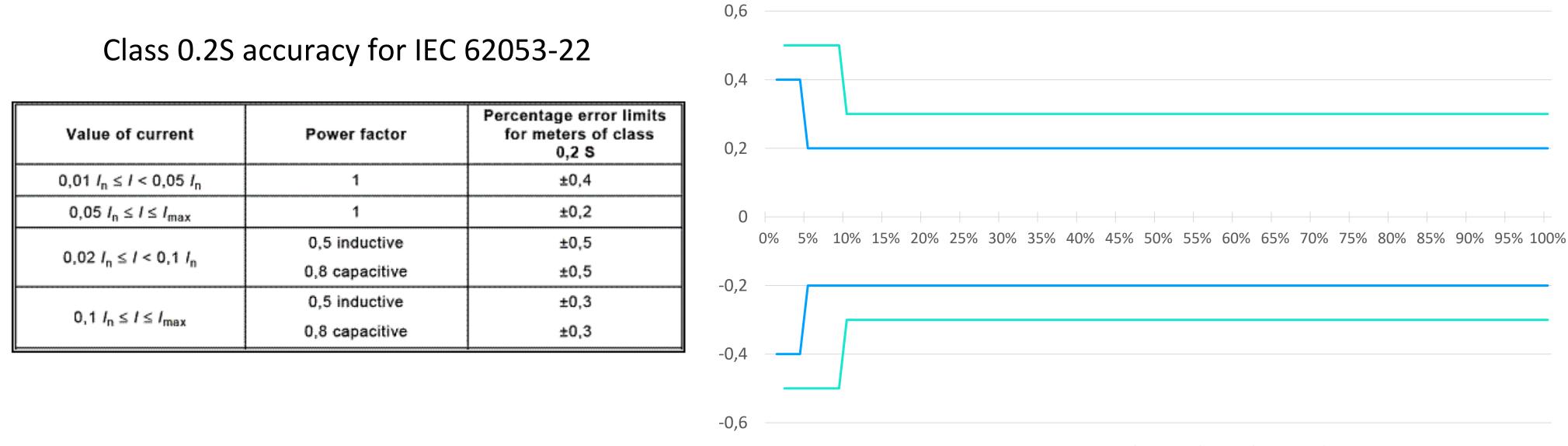
#### **Apparent Power (VA) A**

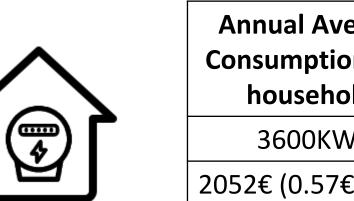






# +/- 0.2% error from 5% to 100% of the nominal load







---PF = 1 ---PF = 0.5 (inductive) or 0.8 (capacitive)

verage on (per old)	EGK-LW22PLG error (+/- 0.2% )	Other portable socket (+/- 3% error as example)
Wh	±7,2KWh	±108KWh
€/KWh)	±4,10€	±61,56€

# <u>Thresholds</u>

Is possible to set 4 thresholds for the active power:

- Th+ = Threshold High Rising Th- = Threshold High Falling Tl+ = Threshold Low Rising

- = Threshold Low Falling TI-

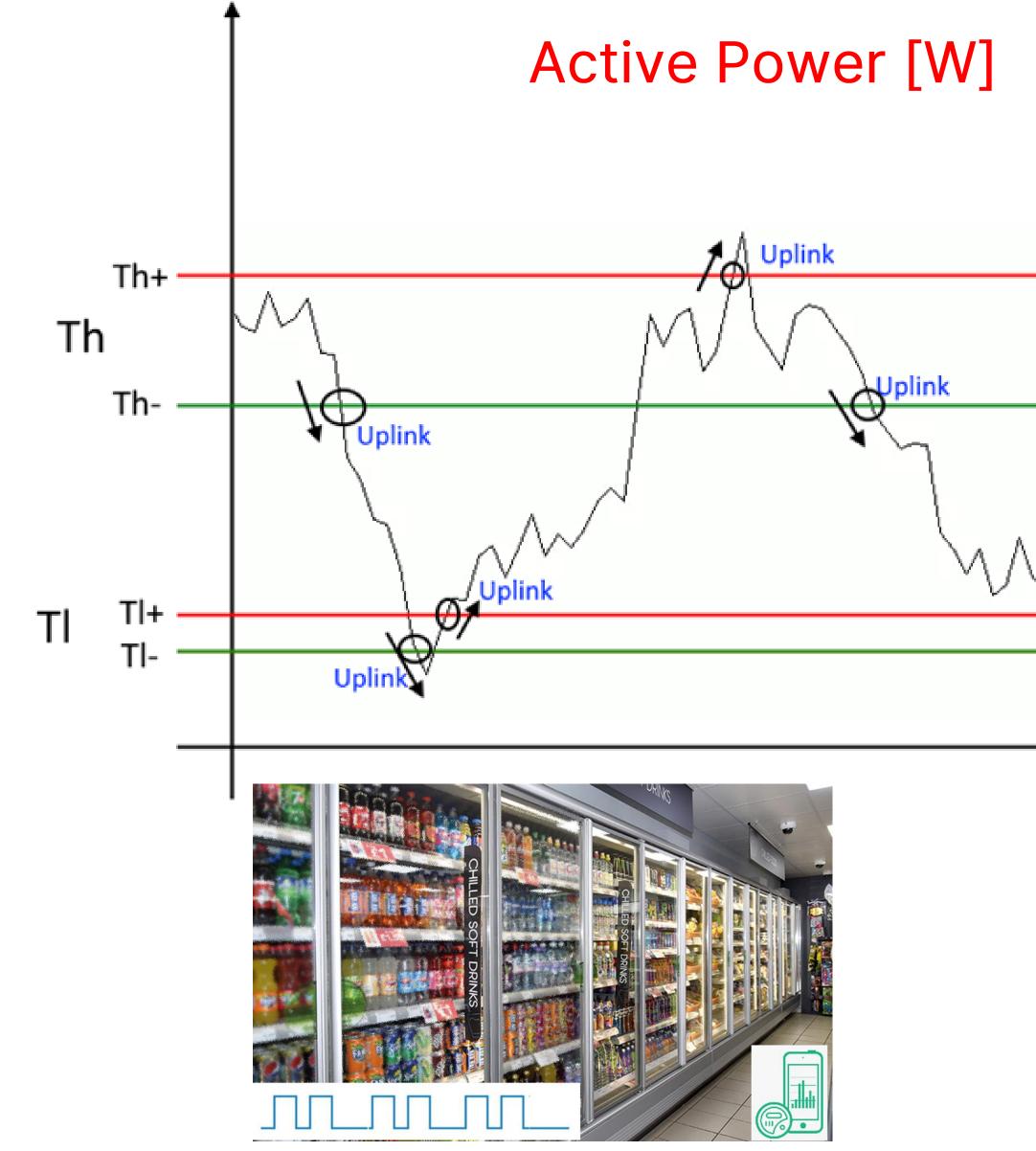
When target values are rising and exceed the positive thresholds, the device sends an uplink with the latest measure.

When values are falling below the negative thresholds, the device sends a new uplink with the latest measure.

Thresholds can be enabled, disabled and changed via LoRaTool or with downlinks.







# Pulsed outputs

The output has pulse capability (minimum pulse duration is 100ms, maximum around 100 minutes), so, instead to send two different commands (one to turn on and one to turn off the output), is possible to send a duration command.

Useful to drive time-driven devices (motors, valves, pumps, feeders) or to build a software fail safe output in case of missing LoRaWAN connectivity.

