

CycleCounter® Specifications



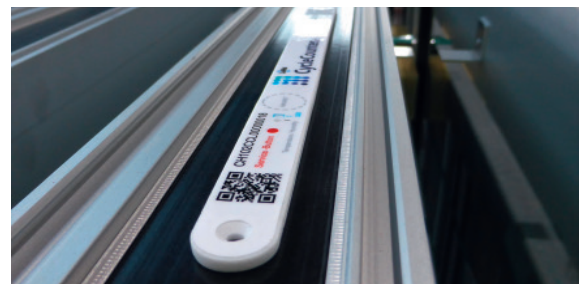
The CycleCounter® is the world's first LoRaWAN™ based sensor for the transmission of status and usage data of the moving parts of a real estate elements.

The information on use and handling as well as on alerts for exceeding threshold values provide precise information for a variety of users: Manufacturers of windows and doors, elements owners or elements administrators, facility managers, maintenance professionals and for each and every user.

The CycleCounter® automatically measures, controls and administrates the complete usage process including information, fault reports and maintenance activities. If and insofar as maintenance is due or if a door, which should be closed, is open, the system will automatically transmit an alert regarding the status or the need for a service via a worldwide available IoT network. Using the cloud-based process automation, the management of doors and windows becomes playfully simple.

The specifications of the CycleCounter® sensor

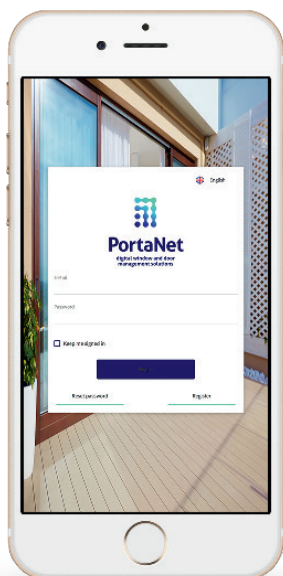
- Communication basis: LoRaWAN™ (proprietary and patented technology of Semtech Corporation)
- Frequency range for Europe: 868 MHz
- Class A Components: Lowest battery consumption; communication from the server to the sensor only takes place during two short reception windows, and after the data has been transmitted from the sensor to the server.
- Security and encryption: Robust security is a key element. LoRaWAN™ utilises AES 128-bit encryption and features two independent security layers, a network session key (NwkSKey) and an application session key (AppSKey).
- Wireless: battery operated, operating time up to 10 years and more
- Operating temperatures: -20 to +40°C, splash-proof



- Mass sensor: Length: 209 mm; Width: 15.4 mm; Height / Thickness: 3 mm
- Works with all objects, including steel
- The data can be visualised and adapted via the MyPortaNet application and Apps, or if the data is sent to your system via a REST API



The
CycleCounter®
is patent pending
and protected as a
trademark!



The functions of the CycleCounter®

- Measures, monitors and transmits periodic usage information (number of cycles, open positions, location, slamming, condition)
- Service notification directly from the door during maintenance work
- Immediate alarm according to definable threshold values

- Notification «**Left open**»
- Notification «**Closed again after being left open**»
- Notification «**Temperature high/low**»
- Notification «**Moisture too high**»
- Notification «**Tilt / Inclination longitudinal**»
- Notification «**Vibration**»
- Notification «**Number of Cycles reached**»
- Notification «**Battery low**»

Example settings

- after 10 minutes
- immediately
- 45 degrees ← 5 degrees
- exceeding 60%
- more than 1 degree
- exceeding 1 g
- after 20'000 cycles
- less than 10%

All notifications are always sent including date/time stamp

Test the new complete MyPortaNet solution for managing windows and doors!
We gladly provide personal advice. We offer a demo version and would be happy to prepare a tailor-made offer.

Further information regarding QID-TAG™ and CycleCounter® can be obtained from:



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We digitise windows & doors



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