



LPWAN miniUNI accelerometer

LPWAN miniUNI accelerometer device has been designed for different tasks where motion or position is required. The device is equipped with precise accelerometer LIS3 which is capable to deliver position in 3 axis and sensing the motion up 16g. Performance of accelerometer is configurable and based on required application, user can select different scenario from detecting of micro motion up to detection of high speed :

- ✓ $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ dynamically selectable
- ✓ 3 axis position
- ✓ Embedded thermometer

The device is battery operated and battery lifetime has been optimized by selection of high quality and ultra low power components. 5+ year between battery replacement can be expected. Enclosure is made of high-quality ABS plastic and has been designed to meet high demanding interior requirements while IP65 protection has been reached so it can be used outdoor as well.



Usage

- Motion monitoring
- Position monitoring of ventils
- Manhole protection
- Alarm system component
- Man down detection
- Motion activated function

LPWAN Environmental device	Parameter
Protection	IP20
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible
Power consumption	<3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBLoT)
Battery lifetime	Aprox. 20 000 transmissions
Supported LPWAN standards	Sigfox, LoRaWAN, NBLoT (one of selected upon order)
Dimensions	107 x 65 x 33
Weight standard/radiation	120g
Accelerometer	LIS3DHTR
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology

