

LPWAN miniUNI Accelerometer

PRODUCT DESCRIPTION

The LPWAN miniUNI accelerometer has been designed for various tasks where motion or position is required. The device is equipped with a precision LIS3 accelerometer, which is capable of providing 3-axis position and sensing upward motion of 16g. The accelerometer performance is configurable and based on the required application, the user can choose a different scenario from micro motion detection to high speed detection:

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

The device is battery powered and the lifespan has been optimized by selecting high-quality and ultra-low-power components. 5 or more years can be expected between battery replacements. The housing is made of high-quality ABS plastic and has been designed to meet high-demanding indoor requirements while achieving IP65 protection, so it can also be used outdoors.

USAGE

- Motion tracking
- Valve position monitoring
- Shaft protection
- Security system
- Man down detection
- Motion activated function



FEATURES	PARAMETERS
Protection	IP20
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible
Energy consumption	<3.5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBIoT)
Battery life	Approx. 20,000 transfers
Supported LPWAN standards	Sigfox, LoRaWAN, NBIoT (one of the selected ones on order)
Dimensions	107 x 65 x 33
Weight	120 g
Accelerometer	LIS3DHTR
Antenna/typical range	PCB, gain 2.5dBi/45 to 110km depends on LPWAN technology