

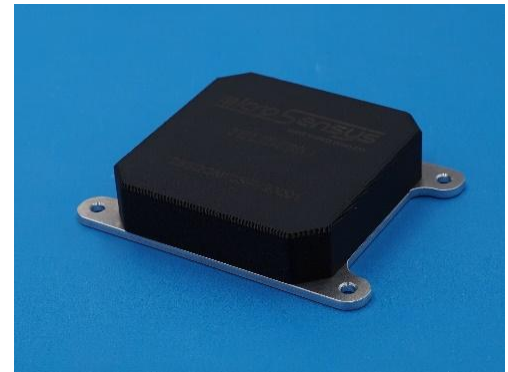
TELID® 780.i

BLE Inclination Sensor and Identification Beacon

- unique identification number
- 2D inclination measurement based on earth acceleration
e.g. for process or infrastructure monitoring
- Bluetooth Low Energy data communication
- lifetime up to 5 years due to built-in high performance Li battery

TELID® 700 extends the proven range of passive sensors and sensor data loggers with wireless RFID interface by a Bluetooth Low Energy communication interface.

TELID® 700 devices are useful for long range identification or sensing demands. The product can be attached to metal or non-metal surfaces and is even useable under water.



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This data sheet is subject to change. Please contact microsensys for latest technical information. Picture may differ from original product.

TELID780.I-005.DOCX

Contactless Interface:	BLE TELID® 7	long range identification and sensor system TELID® 700
RF Communication:		Bluetooth Low Energy 5.2
Carrier Frequency:		2.4 GHz ISM band (2.402 – 2.480 GHz)
Communication Distance:	0 ... 10 m, depending on gateway type and environmental conditions	
Sensors:	MEMS sensor	2D acceleration (x, y-axis)
Working Range:		-17.5 ° ... +17.5 °
Noise:		15µg/VHz
Offset drift:		±8mg
Accuracy:		±0.02 °
Resolution:		0.001 °
Data Memory:	EEPROM	non-volatile memory, write endurance >10 ⁶ cycles
Standard Content:		unique TELID identification number, parameter and calibration data
Remarks:		programmable by TELID®700 configuration tool*
Security features:		AES-128 encryption*
Mechanical / Environmental:	Q7070PM	Q7070PM, sealed
Housing:		70mm x 70mm, thickness 16mm
Dimensions:		PA6
Material:		IP65
Protection Class:		see application note
Mounting:		-25 °C ... +60 °C
Working Temperature:		-40 °C ... +85 °C, recommended 25 °C
Storage Temperature:		
Operation:	SLEEP, MEASURE and ADVERTISING	
Basic functions:		PROGRAM, BROADCAST, CONNECT*
Sampling rate:		15 sec ... 900 sec, programmed on delivery
Broadcast period:		> 1 sec, depending on connection period
Energy Source:	Li primary cell	
Battery:		CR2450, replaceable by service
Lifetime:		up to 5 years, depending on usage
Operation:	SLEEP, MEASURE and ADVERTISING	
Transmission Protocol:		TELID® 7 beacon protocol
Basic Functions:		MEASURE, BROADCAST, SLEEP, PROGRAM*, CONNECT*
Broadcast Interval:		15 sec ... 900 sec, programmed on delivery
Broadcast Duration:		> 1 sec, depending on connection period
Measurement Interval:		15sec ... 900sec, programmed on delivery
Recommended Gateway:	smart phone, iID® INDUSTRY 0906 BLE or iID® gateway Ezurio MG-100	
Configuration Software:		TELID® 7 configuration tool (Android)*
Operating Software:		TELID® 700 DEMOsoft (Android)
Device Interface:		TELID® 7 beacon protocol, driverless

*) in development or on request

TELID® 780.i

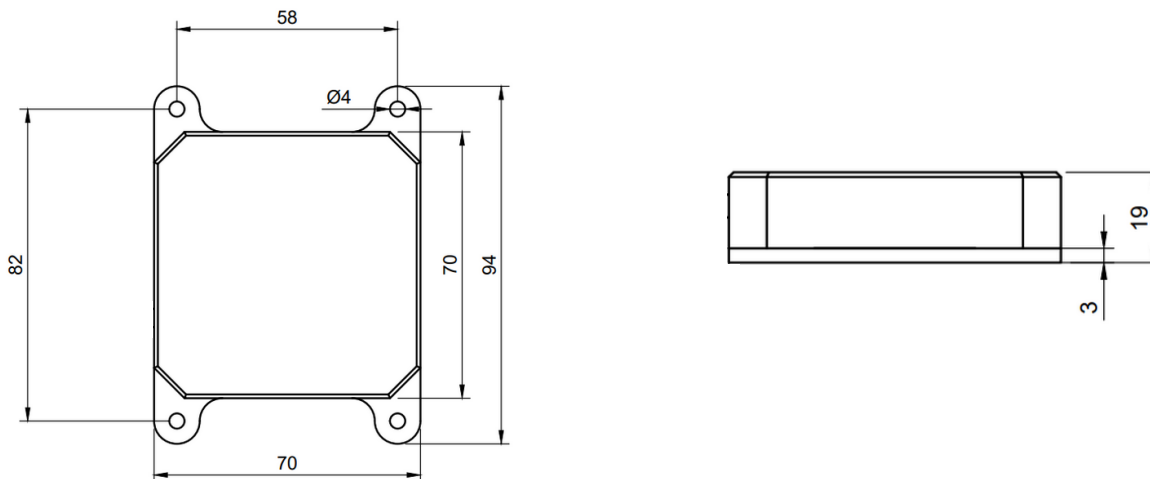
TELID® 780.i is a battery powered inclination sensor beacon for unique object identification, inclination measurement, supporting operation with smartphones and other iID® contactless components such as gateways.



Product Code:	14.780.951.00*	14.780.951.01	Unit
Measurement Range	+60 ... -60	-17.5 ... +17.5	°
Noise	15		µg/VHz
Accuracy	±0.02		°
Resolution	0.05	0,001	°
Battery Capacity	550		mAh

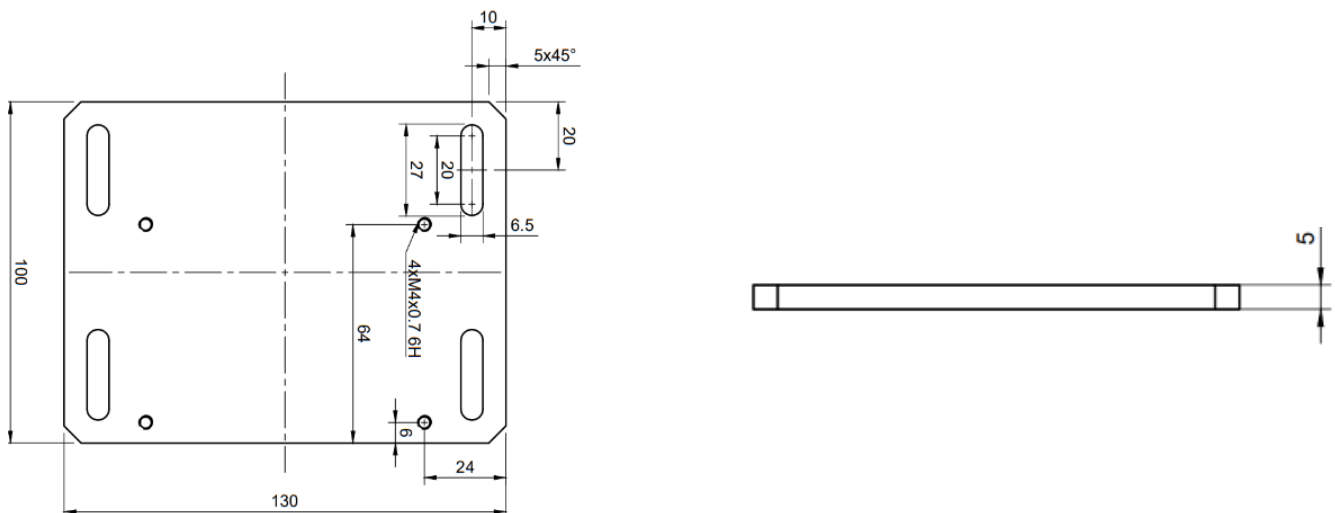
*) not for new projects

Dimensions:



Q7070PM housing, All dimensions in mm

Dimensions Mounting Plate (optional):



Mounting Plate for Q7070PM housing, all dimensions in mm