Data sheet:
TEDIASENS SN-I-3ACC G3.0

Figure: TEDIASENS SN-I-3ACC G3.0

1 Specification

	Note	min.	typ.	max.	Unit
Type		SNI-3ACC			
Device version		G3.0			
Sensor					
Measuring range		±10		±100	g
Broadband noise	Peak-peak at 13kS/s		1,7		mg
A/D-converter resolution			24		bit
Sampling rate	[1] fs			13000	Hz
Upper limit frequency ADC	Sigma-Delta-converter		0,49 x fs		
3-channel sampling		simultaneous			
Lower cut off frequency	[1] -3dB	DC	1		Hz
Upper cut off frequency	-3dB		8000		Hz
SNRRMS ADC	broadband at 13 kS/s		109,5		dB
Synchrony (Jitter)	standard deviation		1		µs
Offset	ex works at 20°C			10	mg
Gain error of evaluation electronics	[3] over the complete measurement and temperature range		0,2		%
Gain error of embedded sensors	on each axis over the complete measurement and temperature range	-3		+3	%
Cross sensitivity of embedded sensors	on each axis			7	%
Data transmission					
Data rate per sensor node				1	Mbit/s
Sensor nodes per system	[2]	1	10	40	
Range (isotopic)	[3] free field 802.11g		138		m
Power supply	optional accumulator or mains				
Accumulator technology		Li-Ion			
Accumulator charge	at 3,7 V		2600		mAh
Measuring time	[2] [3]		7-9		h
Charging voltage		4,25	5	5,5	V
Charging time	[3]			3	h
Power input	while charging			1,5	A
Power input	with full accumulator		0,3		A

	Note	**min.**	**typ.**	**max.**	**Unit**
User interface					
Input	on/off, display state	1 button			
Display	WLAN-, accumulator state	4 LEDs (red/green/yellow)			
Mechanical data					
Dimensions	length over all (LxWxH)	40 x 40 x 82			mm^3
Weight	incl. accumulator, antenna		220		g
Antenna connector		RP-SMA			
Power connector		Binder 707 M5x0,5			
IP-class		IP67			
Environmental conditions					
Temperature range	in battery mode	0		60	°C
Temperature range	during charging	0		45	°C

1) software adjustable
2) depending on sample rate
3) proved by design

2 Dimensions

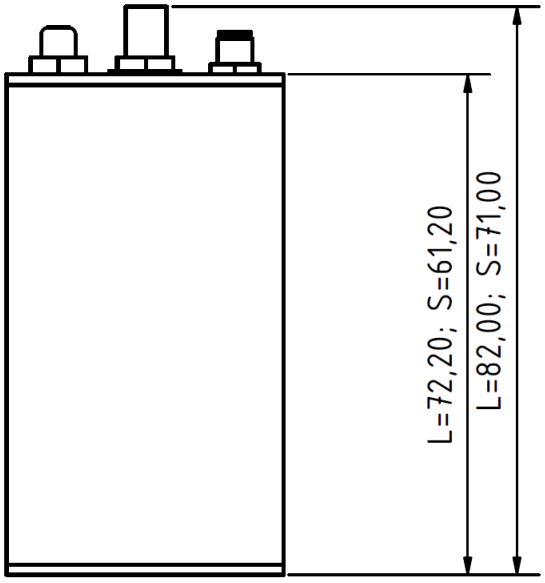

Figure: Dimensions

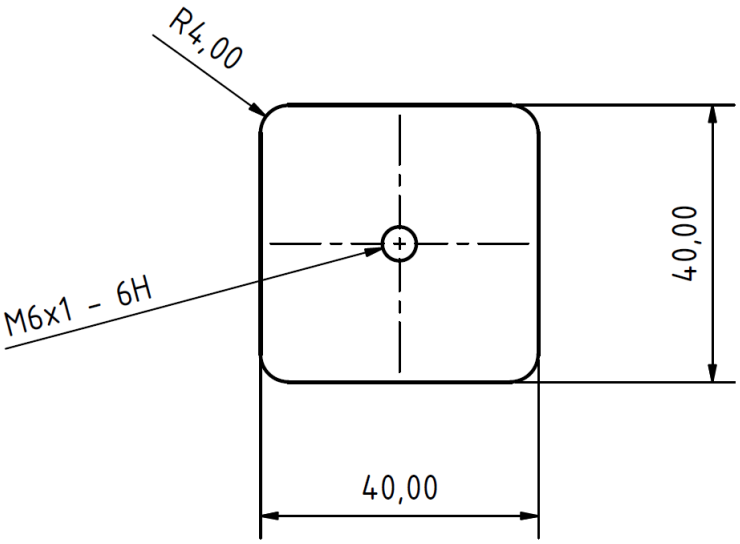

Figure: Mounting

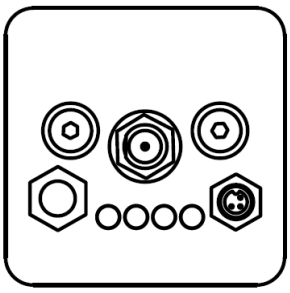

Figure: Connection

3 Note

Technical specifications may change without notice.