

UNITE

SPECIFICATIONS

	RAU	RAU-D
GENERAL		
Number of channels	1	3 axes MEMS
Timing accuracy	Better than 25 μ s	Better than 25 μ s
Memory autonomy (2 ms sampling)	480 hrs	310 hrs
External Battery autonomy (12 V, 15 Ah, Autonomous mode)	220 hrs	170 hrs
External Battery input	9 V – 22 V	9 V – 22 V
Backup battery autonomy (Autonomous mode)	36 hrs	30 hrs
WEIGHT		
With 4.8 Ah internal battery	1.3 Kg	1.3 Kg
POWER CONSUMPTION		
Real-time mode	1.3 W	1.6 W*
Autonomous mode	0.9 W	1.2 W*
Sleep mode	10 mW	10 mW*
ENVIRONMENTAL LIMITS		
Operational temperature	-20 °C / +60 °C	-20 °C / +60 °C
Storage temperature	-20 °C / +60 °C	-20 °C / +60 °C
Humidity	0 – 95%	0 – 95%
RADIO TRANSMISSION		
WLAN Frequency	2.4 – 2.4835 GHz	2.4 – 2.4835 GHz
Power	18 dBm	18 dBm
Antenna	Omni-directional patch	Omni-directional patch
Data rate	Up to 11 Mbps	Up to 11 Mbps
Range	Up to 1500 m (LOS)	Up to 1500 m (LOS)
GPS		
Frequency	L1 (1575.42 MHz)	L1 (1575.42 MHz)
Cold stat acquisition sensitivity	-173 dBW	-173 dBW
TTFF (cold start)	< 30 s (sat. signal strength = -130 dBm)	< 30 s (sat. signal strength = -130 dBm)
UNITE TESTS		
Battery status	✓	✓
GPS status	✓	✓
WLAN signal strength	✓	✓
STATIC SENSOR TESTS		
Tilt		✓
Noise	✓	✓
Gravity		✓
Resistance	✓	
DYNAMIC SENSOR TESTS		
Gain		✓
Distortion	✓	✓
Phase		✓
CMRR	✓	

* Including DSU3-SA



Ahead of the CurveSM

DSU3-SA

GENERAL

Full scale	5 m/s ²
Tilt max value	± 180°
Noise (10-200Hz)	0.4 µm/s ² /√Hz
System dynamic range	120 dB @ 4 ms
Sampling rate	4, 2, 1, 0.5 ms
Bandwidth	0 - 800 Hz
Distortion	-90 dB
Amplitude calibration accuracy	± 0.25%
Orthogonality calibration accuracy	± 0.25%

WEIGHT

0.57 kg (1,2 lbs.)

ENVIRONMENTAL LIMITS

Operating temperatures	-40° to +70°C
Storage temperatures	-40° to +70°C
Water depth	1 m

