

SVS-603HR/613HRC CALIBRATION AND QUALIFICATION CERTIFICATE

S/N: 603HR0154

Date of Manufacture: 02/2021

Operational Tests	Acceptance Criterion	Result
Battery check (V)	≥ 3.2	3.4
Serial Port Test	Pass/Fail	P
SD card file write	Pass/Fail	P
Pitch and Roll 45-degree functionality test	Pass/Fail	P
Simulated Wave Tests		
Expected: Hs 1.7 Period 4.68 Measured: Hs 1.693 Period 4.657	$\leq 1\%$ error	0.4/0.3%
Expected: Hs 1.7 Period 5.62 Measured: Hs 1.683 Period 5.565	$\leq 1\%$ error	1/1%
Expected WD: 46.70 Measured WD: 47.62	$\leq 2\%$ error	2%
12 Hour Static Drift Tests (Mean Values):		
Acceleration X (m/sec ²)	± 0.75	0.296
Acceleration Y (m/sec ²)	± 0.75	0.064
Acceleration Z (m/sec ²) (offset by gravity)	± 0.75	0.075
Difference from gravity (m/sec ²)	± 0.1	0.076
Angular Velocity 1 (deg/sec)	± 0.01	0
Angular Velocity 2 (deg/sec)	± 0.01	0
Angular Velocity 3 (deg/sec)	± 0.01	0
12 Hour Static Drift Tests (Range in Values):		
Calculated pitch from magnetometers (degrees) variation	≤ 0.5	0.070
Calculated roll from magnetometers (degrees) variation	≤ 0.5	0.122
Accelerometers - range (m/sec ²)		
Acceleration X variation	≤ 0.05	0.021
Acceleration Y variation	≤ 0.05	0.012
Acceleration Z variation	≤ 0.05	0.017
Angular Velocity - range (deg/sec)		
Angular Velocity 1 variation	≤ 0.004	0.001
Angular Velocity 2 variation	≤ 0.004	0
Angular Velocity 3 variation	≤ 0.004	0

Signed:



Date: 4 Aug 2021