

FACTORY CALIBRATION DATA OF THE SV100A No. 136597
1. CALIBRATION

Input signal: 120dB; Frequency: 15.915Hz;

	Filter	Wb	Wd	Wk	Wm
Channel 1 (X)	Indication [dB]	-	102.25	-	110.78
	Error [dB]	-	0.20	-	0.21
Channel 2 (Y)	Indication [dB]	-	102.37	-	110.90
	Error [dB]	-	0.30	-	0.31
Channel 3 (Z)	Indication [dB]	118.45	-	118.01	110.80
	Error [dB]	0.23	-	0.21	0.22

2. LINEARITY TEST

Filter: Wm; Frequency: 15.915 Hz

	Nominal result RMS [dB]	85.0	90.0	95.0	100.0	110.0	120.0	125.0	130.0
Channel 1(X)	Error [dB]	0.00	-0.03	-0.03	-0.03	0.00	0.05	0.02	0.06
Channel 2(Y)	Error [dB]	-0.09	-0.06	-0.03	0.00	0.00	0.00	-0.01	0.02
Channel 3(Z)	Error [dB]	-0.30	-0.05	-0.09	-0.09	-0.05	0.03	0.05	0.03

3. FREQUENCY RESPONSE

Filter: Wm; Input signal: 120dB;

	Frequency [Hz]	4	8	16	31.5	63	125
Channel 1 (X)	Gain [dB]	-2.15	-4.66	-9.18	-14.70	-21.31	-31.58
	Error [dB]	-0.41	0.04	0.26	0.39	0.27	0.79
Channel 2 (Y)	Gain [dB]	-2.07	-4.60	-9.05	-14.65	-21.24	-31.69
	Error [dB]	-0.33	0.10	0.39	0.44	0.34	0.68
Channel 3 (Z)	Gain [dB]	-2.10	-4.63	-9.16	-14.72	-21.10	-33.12
	Error [dB]	-0.36	0.07	0.28	0.37	0.48	-0.75

4. INTERNAL NOISE

	Filter	Wb	Wd	Wk	Wm
Channel 1 (X)	Indication [dB]	-	61.10	-	60.40
Channel 2 (Y)	Indication [dB]	-	51.00	-	60.80
Channel 3 (Z)	Indication [dB]	70.20	-	68.60	63.50

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
24°C	29%	1008 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1	SVANTEK	SVAN 401	84	Signal generator
2	SVANTEK	SVAN 979	98965	Sound & Vibration Analyzer
3	RIGOL	DM3068	DM30155100773	Digital multimeter
4	VEB RFT	11075	81025	Shaker
5	DYTRAN	3233A	1376	Reference accelerometer

CONFORMITY & TEST DECLARATION

1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
2. Traceability of the calibration is guaranteed by the above mentioned ISO9001 procedures.
3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all supplied herein.
4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Krzysztof Kubel

Test date: 2024-05-15