

CSC R0370

REPORT OF CALIBRATION

Certificate number: D006A28C30-101016


DEWESoft®
 measurement innovation

Unit under test SIRIUS
 Serial number D006A28C30
 Hardware version 1.4
 Firmware version 5.3.18.16
 System SN D00BFFDA8B
 Procedure name SIRIUS check
 Procedure version 4.0
 Confidence level 95% (sigma 2)
 Temperature 23,0 °C
 Humidity 45%
 Performed by Loic Renaudin
 Location DEWEFRANCE
 Calibration date 10.10.2016 17:38:26
 Calibration status PASS
 State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

CAN excitation

Port index	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1	5,000000	0,000000	10,00	0,500000	5,000419	0,08	1,500E-04	PASS
1	12,000000	0,000000	10,00	1,200000	11,975429	2,05	3,128E-04	PASS

Functionality tests

Description	P/F
Sync connector(s) in/out	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA59-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA59
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 1
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:28
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000744	2,16	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450242	2,16	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000207	2,07	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449789	1,88	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000594	1,72	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,001307	2,94	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000770	3,85	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000031	0,07	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,799989	0,19	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800100	1,69	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799785	3,64	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799779	3,75	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799788	3,60	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490023	1,87	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490030	2,43	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490011	0,87	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490012	0,98	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490013	1,03	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000023	2,33	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000025	2,55	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000032	3,18	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000034	3,37	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000034	3,35	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489964	2,90	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489970	2,38	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489923	6,15	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489921	6,33	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489921	6,31	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799823	2,99	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799908	1,57	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799562	7,42	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799559	7,47	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799567	7,33	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800155	2,25	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800250	3,62	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800010	0,15	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800022	0,32	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800037	0,54	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000190	9,49	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000175	8,77	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000257	12,83	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000277	13,87	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000283	14,13	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799657	4,97	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799758	3,51	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799337	9,60	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799315	9,92	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799318	9,88	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980024	3,54	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049003	1,21	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000003	1,38	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048996	1,64	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979965	5,12	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980042	6,09	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000020	10,17	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979947	7,67	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,21	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004901	0,99	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	-0,000001	0,59	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,40	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,73	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098004	2,41	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000002	2,38	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097997	1,93	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	126,1	0,00	PASS
50V Dual core	10000	118,0	12,0	120,4	0,00	PASS
50V Dual core	50000	111,0	12,0	113,7	0,00	PASS
50V Dual core	100000	108,0	12,0	111,0	0,00	PASS
50V	2000	108,0	12,0	109,4	0,00	PASS
50V	10000	108,0	12,0	108,9	0,00	PASS
50V	50000	106,0	12,0	107,6	0,00	PASS
50V	100000	104,0	12,0	104,6	0,00	PASS
10V Dual core	2000	128,0	12,0	130,9	0,00	PASS
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,6	0,00	PASS
10V	10000	107,0	12,0	109,2	0,00	PASS
10V	50000	107,0	12,0	108,5	0,00	PASS
10V	100000	104,0	12,0	105,5	0,00	PASS
1V Dual core	2000	119,0	12,0	121,5	0,00	PASS
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS
1V	2000	108,0	12,0	109,1	0,00	PASS
1V	10000	107,0	12,0	108,2	0,00	PASS
1V	50000	104,0	12,0	105,2	0,00	PASS
1V	100000	101,0	12,0	102,2	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,6	0,00	PASS
0.1V Dual core	10000	100,0	12,0	102,9	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,0	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS
0.1V	2000	102,0	12,0	106,8	0,00	PASS
0.1V	10000	100,0	12,0	102,0	0,00	PASS
0.1V	50000	94,0	12,0	95,8	0,00	PASS
0.1V	100000	91,0	12,0	92,8	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,53	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,15	2,71	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,12	4,05	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,01	1,46	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,43	3,73	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,23	11,40	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,17	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,14	1,77	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,25	8,29	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999949	2,05	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	5,001215	27,01	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000879	12,56	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,001301	10,84	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100426	20,29	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000103	3,43	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,999336	5,54	4,666E-03	PASS
12,000000	0,050000	0,50	0,110000	11,991108	8,08	7,330E-03	PASS
44,000000	0,050000	0,50	0,270000	43,968658	11,61	1,799E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA5A-101016



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measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA5A
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 2
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:32
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000633	1,84	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,449911	0,79	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	0,000102	1,02	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,450089	0,79	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000731	2,12	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,002603	5,85	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,001868	9,34	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	48,998761	2,78	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800078	1,32	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800208	3,53	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799917	1,41	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799928	1,22	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799946	0,92	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489953	3,78	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489957	3,47	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489936	5,15	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489929	5,73	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489930	5,61	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000050	4,97	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	0,000049	4,88	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	0,000045	4,45	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	0,000049	4,90	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	0,000049	4,92	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,490044	3,53	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,490050	3,98	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,490003	0,22	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,490008	0,61	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,490009	0,69	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799989	0,19	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,800110	1,86	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799710	4,92	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799706	4,99	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799712	4,89	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800590	8,55	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800694	10,06	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800443	6,42	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800492	7,14	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800514	7,45	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000462	23,10	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000437	21,85	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000481	24,07	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000516	25,78	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000519	25,97	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799477	7,58	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799624	5,44	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799184	11,82	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799141	12,45	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799143	12,42	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980033	4,80	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,048994	2,57	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	0,000006	2,88	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,049005	2,42	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979984	2,38	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980086	12,41	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000047	23,36	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979931	9,99	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,58	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004899	0,81	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000001	0,000001	1,35	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004902	1,65	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098003	1,99	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098008	5,13	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000004	3,95	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097998	1,56	2,295E-06	PASS

SNR									
Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F			
50V Dual core	2000	123,0	12,0	126,1	0,00	PASS			
50V Dual core	10000	118,0	12,0	120,3	0,00	PASS			
50V Dual core	50000	111,0	12,0	113,6	0,00	PASS			
50V Dual core	100000	108,0	12,0	110,8	0,00	PASS			
50V	2000	108,0	12,0	109,6	0,00	PASS			
50V	10000	108,0	12,0	109,2	0,00	PASS			
50V	50000	106,0	12,0	107,8	0,00	PASS			
50V	100000	104,0	12,0	104,6	0,00	PASS			
10V Dual core	2000	128,0	12,0	131,2	0,00	PASS			
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS			
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS			
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS			
10V	2000	108,0	12,0	109,6	0,00	PASS			
10V	10000	107,0	12,0	109,4	0,00	PASS			
10V	50000	107,0	12,0	108,7	0,00	PASS			
10V	100000	104,0	12,0	105,5	0,00	PASS			
1V Dual core	2000	119,0	12,0	121,5	0,00	PASS			
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS			
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS			
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS			
1V	2000	108,0	12,0	109,4	0,00	PASS			
1V	10000	107,0	12,0	108,4	0,00	PASS			
1V	50000	104,0	12,0	105,3	0,00	PASS			
1V	100000	101,0	12,0	102,4	0,00	PASS			
0.1V Dual core	2000	102,0	12,0	109,9	0,00	PASS			
0.1V Dual core	10000	100,0	12,0	103,0	0,00	PASS			
0.1V Dual core	50000	94,0	12,0	96,0	0,00	PASS			
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS			
0.1V	2000	102,0	12,0	106,9	0,00	PASS			
0.1V	10000	100,0	12,0	102,2	0,00	PASS			
0.1V	50000	94,0	12,0	95,8	0,00	PASS			
0.1V	100000	91,0	12,0	92,9	0,00	PASS			

Low pass filter									
Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,74	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,22	0,89	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,37	8,55	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,67	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,50	0,16	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,47	23,61	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,03	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,08	0,84	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,34	11,18	1,107E-02	PASS

Excitation voltage									
Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F		
1,000000	0,002000	0,05	0,002500	0,999914	3,44	3,133E-05	PASS		
5,000000	0,002000	0,05	0,004500	4,999811	4,20	1,500E-04	PASS		
10,000000	0,002000	0,05	0,007000	9,999567	6,19	2,667E-04	PASS		
20,000000	0,002000	0,05	0,012000	20,000374	3,12	1,000E-03	PASS		

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100646	30,76	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000616	20,54	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,998945	8,79	4,668E-03	PASS
12,000000	0,050000	0,50	0,110000	11,998775	1,11	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	43,958062	15,53	1,799E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA5B-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA5B
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 3
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:35
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-48,999229	2,24	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450049	0,44	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000065	0,65	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449931	0,62	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	48,999613	1,12	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-48,998943	2,37	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	0,000221	1,10	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	48,998988	0,23	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,799835	2,79	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,799943	0,98	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799829	6,28	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799829	6,29	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799829	6,28	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489972	2,27	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489974	2,07	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489954	3,69	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489951	3,97	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489953	3,74	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000025	2,53	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	0,000025	2,48	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	0,000021	2,07	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	0,000022	2,16	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	0,000022	2,18	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,490014	1,09	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,490020	1,62	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489972	2,22	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489973	2,13	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489975	2,02	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799784	3,67	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799881	2,01	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799505	8,39	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799498	8,51	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799503	8,43	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,799772	3,30	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,799877	1,79	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,799805	5,73	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,799597	5,84	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,799604	5,74	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	0,000088	4,42	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	0,000092	4,58	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	0,000045	2,26	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	0,000054	2,70	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	0,000047	2,37	7,752E-07	PASS

Certificate number: D00904EA5B-101016

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799847	2,22	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799948	0,75	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799529	6,82	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799530	6,81	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799528	6,84	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980004	0,57	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,048896	1,93	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	0,000005	2,35	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,049004	1,68	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979962	5,58	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,979996	0,53	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	0,000012	6,14	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979969	4,48	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098000	0,25	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,23	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000001	0,73	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004901	0,95	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,34	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,097999	0,88	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000002	1,67	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,29	2,295E-06	PASS

SNR									
Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F			
50V Dual core	2000	123,0	12,0	124,4	0,00	PASS			
50V Dual core	10000	118,0	12,0	118,8	0,00	PASS			
50V Dual core	50000	111,0	12,0	112,5	0,00	PASS			
50V Dual core	100000	108,0	12,0	109,7	0,00	PASS			
50V	2000	108,0	12,0	109,5	0,00	PASS			
50V	10000	108,0	12,0	109,0	0,00	PASS			
50V	50000	106,0	12,0	107,4	0,00	PASS			
50V	100000	104,0	12,0	104,3	0,00	PASS			
10V Dual core	2000	128,0	12,0	131,1	0,00	PASS			
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS			
10V Dual core	50000	119,0	12,0	120,4	0,00	PASS			
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS			
10V	2000	108,0	12,0	109,5	0,00	PASS			
10V	10000	107,0	12,0	109,5	0,00	PASS			
10V	50000	107,0	12,0	108,7	0,00	PASS			
10V	100000	104,0	12,0	105,6	0,00	PASS			
1V Dual core	2000	119,0	12,0	121,4	0,00	PASS			
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS			
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS			
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS			
1V	2000	108,0	12,0	109,4	0,00	PASS			
1V	10000	107,0	12,0	108,4	0,00	PASS			
1V	50000	104,0	12,0	105,4	0,00	PASS			
1V	100000	101,0	12,0	102,3	0,00	PASS			
0.1V Dual core	2000	102,0	12,0	110,0	0,00	PASS			
0.1V Dual core	10000	100,0	12,0	103,0	0,00	PASS			
0.1V Dual core	50000	94,0	12,0	96,2	0,00	PASS			
0.1V Dual core	100000	92,0	12,0	93,2	0,00	PASS			
0.1V	2000	102,0	12,0	106,9	0,00	PASS			
0.1V	10000	100,0	12,0	102,4	0,00	PASS			
0.1V	50000	94,0	12,0	96,0	0,00	PASS			
0.1V	100000	91,0	12,0	93,1	0,00	PASS			

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	5,24	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,29	4,75	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,46	12,76	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	2,01	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,56	3,09	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,62	30,99	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,17	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,09	0,45	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,19	6,30	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000077	3,08	3,134E-05	PASS
5,000000	0,002000	0,05	0,004500	4,999432	12,61	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	9,998935	15,21	2,866E-04	PASS
20,000000	0,002000	0,05	0,012000	19,999668	2,77	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100622	29,63	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999926	2,46	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,997518	20,68	4,668E-03	PASS
12,000000	0,050000	0,50	0,110000	11,994899	4,64	7,332E-03	PASS
44,000000	0,050000	0,50	0,270000	43,985284	5,45	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA5C-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA5C
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 4
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:39
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000262	0,76	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450437	3,89	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000411	4,11	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449592	3,64	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	48,999920	0,23	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000080	0,18	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000228	1,14	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000103	0,23	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800041	0,69	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800150	2,54	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799868	2,24	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799874	2,14	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799870	2,20	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490078	6,28	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490086	6,90	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490066	5,27	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490069	5,53	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490067	5,40	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000073	7,28	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000076	7,64	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000084	8,44	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000085	8,54	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000086	8,63	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489921	6,34	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489923	6,19	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489881	9,59	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489877	9,87	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489878	9,76	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799771	3,88	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799861	2,35	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799495	8,55	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799489	8,67	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799491	8,62	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,799990	0,15	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800100	1,44	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,799856	2,09	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,799860	2,02	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,799864	1,97	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000022	1,11	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000026	1,31	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000072	3,62	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000072	3,61	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000081	4,04	7,752E-07	PASS

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Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799822	2,58	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799911	1,28	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799507	7,14	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799502	7,22	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799497	7,29	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980033	4,75	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049008	3,58	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000007	3,41	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048993	3,27	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979963	5,34	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980028	4,08	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000002	1,09	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979968	4,67	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,19	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004901	0,97	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,46	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,25	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,73	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098001	0,88	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,00	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,42	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	125,2	0,00	PASS
50V Dual core	10000	118,0	12,0	119,5	0,00	PASS
50V Dual core	50000	111,0	12,0	113,0	0,00	PASS
50V Dual core	100000	108,0	12,0	110,2	0,00	PASS
50V	2000	108,0	12,0	109,5	0,00	PASS
50V	10000	108,0	12,0	109,1	0,00	PASS
50V	50000	106,0	12,0	107,6	0,00	PASS
50V	100000	104,0	12,0	104,5	0,00	PASS
10V Dual core	2000	128,0	12,0	130,8	0,00	PASS
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,6	0,00	PASS
10V	2000	108,0	12,0	109,5	0,00	PASS
10V	10000	107,0	12,0	109,4	0,00	PASS
10V	50000	107,0	12,0	108,8	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,2	0,00	PASS
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS
1V	2000	108,0	12,0	109,4	0,00	PASS
1V	10000	107,0	12,0	108,4	0,00	PASS
1V	50000	104,0	12,0	105,4	0,00	PASS
1V	100000	101,0	12,0	102,4	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,9	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,2	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,1	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,2	0,00	PASS
0.1V	2000	102,0	12,0	106,8	0,00	PASS
0.1V	10000	100,0	12,0	102,2	0,00	PASS
0.1V	50000	94,0	12,0	96,0	0,00	PASS
0.1V	100000	91,0	12,0	93,1	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	5,26	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,30	4,93	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,51	15,42	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,83	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,52	1,08	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,48	24,02	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,10	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-2,92	8,87	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,10	3,48	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999926	2,95	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	5,001471	32,70	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000188	2,69	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,001147	9,56	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100484	23,06	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000194	6,45	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,998104	15,80	4,666E-03	PASS
12,000000	0,050000	0,50	0,110000	11,989472	9,57	7,330E-03	PASS
44,000000	0,050000	0,50	0,270000	43,963015	13,70	1,799E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

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Firmware version 1.17
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Motherboard SN D006A28C30
Slot 5
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
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Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,001580	4,58	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450268	2,39	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000214	2,14	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449811	1,68	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,001207	3,50	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,002015	4,53	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000650	3,25	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000771	1,73	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800150	2,55	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800221	3,75	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800322	5,45	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800326	5,53	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800341	5,78	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490011	0,91	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490017	1,36	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490014	1,09	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490012	1,00	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490012	0,96	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000013	1,32	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000015	1,50	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000022	2,17	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000018	1,77	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000018	1,78	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489977	1,89	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489980	1,61	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489955	3,61	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489954	3,66	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489960	3,21	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799915	1,44	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799989	0,18	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799996	0,07	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800006	0,10	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800013	0,22	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800256	3,71	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800316	4,57	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800465	6,75	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800481	6,97	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800492	7,13	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000119	5,93	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000109	5,47	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000165	8,27	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000173	8,63	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000169	8,44	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799810	2,76	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799895	1,53	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799852	2,14	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799851	2,15	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799862	2,00	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980037	5,31	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049002	0,69	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000002	0,79	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048998	1,01	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979970	4,41	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980047	6,86	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000012	6,12	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979959	5,96	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098004	2,47	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,41	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,03	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,31	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098001	0,86	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098005	3,20	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000001	1,05	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,14	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	124,6	0,00	PASS
50V Dual core	10000	118,0	12,0	118,8	0,00	PASS
50V Dual core	50000	111,0	12,0	112,4	0,00	PASS
50V Dual core	100000	108,0	12,0	109,6	0,00	PASS
50V	2000	108,0	12,0	108,5	0,00	PASS
50V	10000	108,0	12,0	108,9	0,00	PASS
50V	50000	106,0	12,0	107,3	0,00	PASS
50V	100000	104,0	12,0	104,3	0,00	PASS
10V Dual core	2000	128,0	12,0	130,5	0,00	PASS
10V Dual core	10000	125,0	12,0	126,3	0,00	PASS
10V Dual core	50000	119,0	12,0	120,4	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,7	0,00	PASS
10V	10000	107,0	12,0	109,5	0,00	PASS
10V	50000	107,0	12,0	108,7	0,00	PASS
10V	100000	104,0	12,0	105,5	0,00	PASS
1V Dual core	2000	119,0	12,0	121,3	0,00	PASS
1V Dual core	10000	113,0	12,0	114,9	0,00	PASS
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS
1V Dual core	100000	103,0	12,0	105,0	0,00	PASS
1V	2000	108,0	12,0	109,5	0,00	PASS
1V	10000	107,0	12,0	108,4	0,00	PASS
1V	50000	104,0	12,0	105,4	0,00	PASS
1V	100000	101,0	12,0	102,4	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,9	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,1	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,2	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,3	0,00	PASS
0.1V	2000	102,0	12,0	106,7	0,00	PASS
0.1V	10000	100,0	12,0	102,4	0,00	PASS
0.1V	50000	94,0	12,0	96,1	0,00	PASS
0.1V	100000	91,0	12,0	93,1	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,84	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,22	1,12	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,34	6,85	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,53	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,47	1,46	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,47	23,27	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,05	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,17	3,68	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,41	13,73	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999944	2,24	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	5,000483	10,74	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000984	14,06	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,001346	11,22	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100594	28,29	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000215	7,17	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,998760	10,33	4,666E-03	PASS
12,000000	0,050000	0,50	0,110000	11,984453	14,13	7,328E-03	PASS
44,000000	0,050000	0,50	0,270000	43,942835	21,17	1,798E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA5E-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA5E
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 6
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:46
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000222	0,64	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450502	4,47	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000482	4,62	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449541	4,09	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	48,999677	0,94	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-48,999343	1,48	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	0,000417	2,08	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000557	1,25	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800008	0,14	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800128	2,17	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800241	4,09	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800234	3,97	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800267	4,53	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490080	6,39	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490082	6,59	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490083	6,65	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490086	6,95	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490090	7,21	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000074	7,40	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000072	7,25	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000076	7,56	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000079	7,91	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000082	8,19	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489923	6,22	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489926	5,93	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489907	7,50	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489903	7,80	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489903	7,77	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799775	3,82	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799880	2,03	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799938	1,05	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799926	1,25	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799930	1,19	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,799823	2,57	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,799844	0,81	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800097	1,41	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800088	1,27	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800110	1,59	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	0,000111	5,56	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	0,000111	5,56	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	0,000069	3,43	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	0,000067	3,36	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	0,000076	3,79	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799960	0,58	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,800064	0,92	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,800082	1,19	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,800073	1,05	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,800087	1,27	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980024	3,52	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049007	3,02	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000006	3,11	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048993	2,94	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979961	5,63	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980007	0,99	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	0,000011	5,62	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979979	3,09	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,17	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004901	0,86	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,29	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,03	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,19	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098000	0,13	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000002	1,65	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098002	1,11	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	126,2	0,00	PASS
50V Dual core	10000	118,0	12,0	120,3	0,00	PASS
50V Dual core	50000	111,0	12,0	113,7	0,00	PASS
50V Dual core	100000	108,0	12,0	110,9	0,00	PASS
50V	2000	108,0	12,0	109,6	0,00	PASS
50V	10000	108,0	12,0	109,2	0,00	PASS
50V	50000	106,0	12,0	107,8	0,00	PASS
50V	100000	104,0	12,0	104,7	0,00	PASS
10V Dual core	2000	128,0	12,0	130,9	0,00	PASS
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,9	0,00	PASS
10V	10000	107,0	12,0	109,6	0,00	PASS
10V	50000	107,0	12,0	108,8	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,2	0,00	PASS
1V Dual core	10000	113,0	12,0	114,8	0,00	PASS
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS
1V	2000	108,0	12,0	109,6	0,00	PASS
1V	10000	107,0	12,0	108,4	0,00	PASS
1V	50000	104,0	12,0	105,4	0,00	PASS
1V	100000	101,0	12,0	102,4	0,00	PASS
0.1V Dual core	2000	102,0	12,0	110,0	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,0	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,1	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS
0.1V	2000	102,0	12,0	107,1	0,00	PASS
0.1V	10000	100,0	12,0	102,2	0,00	PASS
0.1V	50000	94,0	12,0	95,9	0,00	PASS
0.1V	100000	91,0	12,0	92,9	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,85	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,22	0,89	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,32	5,75	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,59	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,47	1,45	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,33	16,73	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,05	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,10	0,21	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,29	9,54	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000069	2,78	3,134E-05	PASS
5,000000	0,002000	0,05	0,004500	5,000358	7,96	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000259	3,70	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,000496	4,13	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100553	26,34	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000082	2,72	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,001890	15,75	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,983850	14,68	7,328E-03	PASS
44,000000	0,050000	0,50	0,270000	43,931356	25,42	1,798E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA5F-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA5F
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 7
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:49
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,001412	4,09	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450066	0,59	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000005	0,05	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,450060	0,53	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,001686	4,89	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,002457	5,52	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,001050	5,25	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000641	1,44	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800076	1,29	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800143	2,43	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800232	3,93	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800230	3,90	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800249	4,22	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489968	2,60	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489966	2,69	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489953	3,76	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489953	3,80	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489957	3,43	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000039	3,92	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	0,000041	4,05	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	0,000049	4,85	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	0,000050	4,99	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	0,000047	4,69	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,490040	3,23	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,490047	3,78	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,490027	2,14	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,490026	2,10	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,490026	2,10	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799992	0,13	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,800085	1,44	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,800091	1,54	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800090	1,53	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800085	1,43	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800339	4,92	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800389	5,64	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800510	7,38	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800529	7,66	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800549	7,95	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000224	11,20	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000206	10,28	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000229	11,45	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000249	12,43	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000253	12,65	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799729	3,93	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799839	2,34	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799813	2,71	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799792	3,02	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799785	3,12	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980030	4,35	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,048997	1,37	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	0,000004	1,93	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,049004	1,73	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979981	2,76	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980055	7,94	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000021	10,45	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979956	6,35	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098001	1,00	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004899	0,51	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000001	1,08	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004901	1,28	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098001	0,94	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098004	2,63	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000001	1,35	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,68	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	124,1	0,00	PASS
50V Dual core	10000	118,0	12,0	118,8	0,00	PASS
50V Dual core	50000	111,0	12,0	112,4	0,00	PASS
50V Dual core	100000	108,0	12,0	109,6	0,00	PASS
50V	2000	108,0	12,0	109,4	0,00	PASS
50V	10000	108,0	12,0	109,0	0,00	PASS
50V	50000	106,0	12,0	107,4	0,00	PASS
50V	100000	104,0	12,0	104,4	0,00	PASS
10V Dual core	2000	128,0	12,0	131,4	0,00	PASS
10V Dual core	10000	125,0	12,0	126,7	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,7	0,00	PASS
10V	10000	107,0	12,0	109,4	0,00	PASS
10V	50000	107,0	12,0	108,7	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,5	0,00	PASS
1V Dual core	10000	113,0	12,0	114,9	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	105,0	0,00	PASS
1V	2000	108,0	12,0	109,6	0,00	PASS
1V	10000	107,0	12,0	108,5	0,00	PASS
1V	50000	104,0	12,0	105,4	0,00	PASS
1V	100000	101,0	12,0	102,4	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,6	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,2	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,3	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,3	0,00	PASS
0.1V	2000	102,0	12,0	107,3	0,00	PASS
0.1V	10000	100,0	12,0	102,3	0,00	PASS
0.1V	50000	94,0	12,0	96,0	0,00	PASS
0.1V	100000	91,0	12,0	93,1	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,85	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,21	0,50	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,28	3,89	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,54	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,46	1,98	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,42	21,06	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,28	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,27	8,66	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,40	13,20	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000093	3,70	3,134E-05	PASS
5,000000	0,002000	0,05	0,004500	4,999956	0,97	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000094	1,34	2,867E-04	PASS
20,000000	0,002000	0,05	0,012000	19,999226	6,45	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100624	29,73	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000220	7,32	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,997511	20,74	4,666E-03	PASS
12,000000	0,050000	0,50	0,110000	11,989579	9,47	7,330E-03	PASS
44,000000	0,050000	0,50	0,270000	43,954487	16,86	1,798E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA60-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA60
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C30
Slot 8
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:38:52
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000121	0,35	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450210	1,87	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000230	2,30	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449757	2,16	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	48,999848	0,44	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000769	1,73	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000879	4,39	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	48,999199	1,80	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800099	1,88	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800173	2,94	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800307	5,21	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800301	5,10	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800325	5,51	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490036	2,91	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490043	3,45	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490045	3,61	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490044	3,54	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490043	3,48	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000036	3,59	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000037	3,72	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000048	4,82	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000048	4,79	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000049	4,90	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489956	3,53	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489956	3,54	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489928	5,77	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489930	5,59	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489933	5,42	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799882	1,99	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799959	0,69	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799977	0,39	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799970	0,51	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799974	0,45	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800274	3,97	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800328	4,75	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800500	7,25	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800506	7,34	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800540	7,83	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000211	10,53	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000192	9,59	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000241	12,06	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000253	12,65	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000264	13,20	7,752E-07	PASS

Certificate number: D00904EA60-101016

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799708	4,24	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799804	2,83	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799784	3,13	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799765	3,41	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799759	3,50	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980032	4,65	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049004	2,00	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000004	1,97	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048996	1,87	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979971	4,18	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980051	7,32	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000022	11,19	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979953	6,85	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,17	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,48	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,04	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,13	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,09	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098004	2,44	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000002	1,93	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097998	1,35	2,295E-06	PASS

SNR									
Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F			
50V Dual core	2000	123,0	12,0	125,6	0,00	PASS			
50V Dual core	10000	118,0	12,0	119,6	0,00	PASS			
50V Dual core	50000	111,0	12,0	113,0	0,00	PASS			
50V Dual core	100000	108,0	12,0	110,3	0,00	PASS			
50V	2000	108,0	12,0	109,7	0,00	PASS			
50V	10000	108,0	12,0	109,0	0,00	PASS			
50V	50000	106,0	12,0	107,5	0,00	PASS			
50V	100000	104,0	12,0	104,5	0,00	PASS			
10V Dual core	2000	128,0	12,0	130,5	0,00	PASS			
10V Dual core	10000	125,0	12,0	126,2	0,00	PASS			
10V Dual core	50000	119,0	12,0	120,3	0,00	PASS			
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS			
10V	2000	108,0	12,0	109,8	0,00	PASS			
10V	10000	107,0	12,0	109,4	0,00	PASS			
10V	50000	107,0	12,0	108,7	0,00	PASS			
10V	100000	104,0	12,0	105,6	0,00	PASS			
1V Dual core	2000	119,0	12,0	121,3	0,00	PASS			
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS			
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS			
1V Dual core	100000	103,0	12,0	105,0	0,00	PASS			
1V	2000	108,0	12,0	109,6	0,00	PASS			
1V	10000	107,0	12,0	108,4	0,00	PASS			
1V	50000	104,0	12,0	105,4	0,00	PASS			
1V	100000	101,0	12,0	102,3	0,00	PASS			
0.1V Dual core	2000	102,0	12,0	109,9	0,00	PASS			
0.1V Dual core	10000	100,0	12,0	103,2	0,00	PASS			
0.1V Dual core	50000	94,0	12,0	96,2	0,00	PASS			
0.1V Dual core	100000	92,0	12,0	93,3	0,00	PASS			
0.1V	2000	102,0	12,0	107,1	0,00	PASS			
0.1V	10000	100,0	12,0	102,3	0,00	PASS			
0.1V	50000	94,0	12,0	96,0	0,00	PASS			
0.1V	100000	91,0	12,0	93,1	0,00	PASS			

Low pass filter									
Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	5,12	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,27	3,44	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,37	8,47	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,77	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,51	0,52	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,39	19,62	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,13	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-2,98	5,81	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,23	7,66	1,107E-02	PASS

Excitation voltage									
Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F		
1,000000	0,002000	0,05	0,002500	0,999858	5,70	3,133E-05	PASS		
5,000000	0,002000	0,05	0,004500	4,999831	3,76	1,500E-04	PASS		
10,000000	0,002000	0,05	0,007000	9,999836	2,35	2,667E-04	PASS		
20,000000	0,002000	0,05	0,012000	20,001213	10,11	1,000E-03	PASS		

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100611	29,11	1,387E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000094	3,15	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	9,995937	33,86	4,665E-03	PASS
12,000000	0,050000	0,50	0,110000	11,986607	12,18	7,329E-03	PASS
44,000000	0,050000	0,50	0,270000	43,952656	17,53	1,798E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

CSC R 0370

REPORT OF CALIBRATION

Certificate number: D006A28C27-101016


DEWESoft®
 measurement innovation

Unit under test SIRIUS
 Serial number D006A28C27
 Hardware version 1.4
 Firmware version 5.3.18.16
 System SN D00BFFDA8B
 Procedure name SIRIUS check
 Procedure version 4.0
 Confidence level 95% (sigma 2)
 Temperature 23,0 °C
 Humidity 45%
 Performed by Loic Renaudin
 Location DEWEFRANCE
 Calibration date 10.10.2016 17:14:37
 Calibration status PASS
 State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

CAN excitation

Port index	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1	5,000000	0,000000	10,00	0,500000	5,000381	0,08	1,500E-04	PASS
1	12,000000	0,000000	10,00	1,200000	11,975611	2,03	3,128E-04	PASS

Functionality tests

Description	P/F
Sync connector(s) in/out	PASS

REPORT OF CALIBRATION

Certificate number: D00909A8E4-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00909A8E4
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 1
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:11:44
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000536	1,55	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,448942	0,52	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000152	1,52	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,448994	0,05	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000461	1,34	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000885	1,99	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000501	2,51	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000111	0,25	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800327	5,54	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800204	3,46	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799960	0,68	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799945	0,93	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799943	0,97	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490051	4,13	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489994	0,47	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489962	3,07	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489963	2,98	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489958	3,41	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000111	11,14	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000040	3,98	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000016	1,63	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000014	1,39	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000008	0,83	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489904	7,74	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489986	1,16	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489985	1,23	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489985	1,18	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489992	0,66	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799934	1,12	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799952	0,81	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799727	4,64	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799724	4,68	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799742	4,37	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800398	5,77	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800281	4,07	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800029	0,42	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800009	0,12	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800015	0,22	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000183	9,15	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000117	5,84	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000086	4,28	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000077	3,87	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000081	4,05	7,752E-07	PASS

Certificate number: D00909A8E4-101016

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Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799863	1,99	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799875	1,81	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799657	4,97	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799661	4,92	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799669	4,79	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980038	5,54	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049000	0,02	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000004	1,97	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048999	0,64	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979974	3,70	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980043	6,29	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000009	4,55	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979969	4,45	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,55	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,17	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,14	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,09	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,24	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,84	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000001	0,58	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,05	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	120,6	20,05	PASS
50V Dual core	10000	118,0	12,0	114,3	30,45	PASS
50V Dual core	50000	111,0	12,0	111,8	0,00	PASS
50V Dual core	100000	108,0	12,0	109,9	0,00	PASS
50V	2000	108,0	12,0	109,0	0,00	PASS
50V	10000	108,0	12,0	107,8	1,63	PASS
50V	50000	106,0	12,0	106,7	0,00	PASS
50V	100000	104,0	12,0	104,0	0,00	PASS
10V Dual core	2000	128,0	12,0	131,0	0,00	PASS
10V Dual core	10000	125,0	12,0	126,7	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,6	0,00	PASS
10V	2000	108,0	12,0	109,1	0,00	PASS
10V	10000	107,0	12,0	109,0	0,00	PASS
10V	50000	107,0	12,0	108,2	0,00	PASS
10V	100000	104,0	12,0	105,2	0,00	PASS
1V Dual core	2000	119,0	12,0	121,3	0,00	PASS
1V Dual core	10000	113,0	12,0	114,8	0,00	PASS
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS
1V	2000	108,0	12,0	108,9	0,00	PASS
1V	10000	107,0	12,0	108,0	0,00	PASS
1V	50000	104,0	12,0	105,1	0,00	PASS
1V	100000	101,0	12,0	102,1	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,5	0,00	PASS
0.1V Dual core	10000	100,0	12,0	102,9	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,0	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS
0.1V	2000	102,0	12,0	107,0	0,00	PASS
0.1V	10000	100,0	12,0	102,1	0,00	PASS
0.1V	50000	94,0	12,0	95,8	0,00	PASS
0.1V	100000	91,0	12,0	92,8	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	5,09	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,27	3,39	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,36	8,21	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,76	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,49	0,36	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,54	27,06	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,11	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,13	1,34	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,31	10,19	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000077	3,06	5,867E-05	PASS
5,000000	0,002000	0,05	0,004500	4,999380	13,78	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	9,999760	3,43	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	19,998785	10,12	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100486	23,16	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999939	2,03	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,003708	30,90	4,668E-03	PASS
12,000000	0,050000	0,50	0,110000	11,998388	1,47	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	43,996182	1,41	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA52-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA52
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 2
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:11:49
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000287	0,83	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450163	1,45	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000135	1,35	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449831	1,51	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000297	0,86	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000636	1,43	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000484	2,42	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	48,999948	0,12	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800230	3,90	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800199	3,37	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799990	0,18	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799982	0,30	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799982	0,31	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490131	10,48	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490062	4,96	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490018	1,47	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490016	1,25	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490012	0,95	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000115	11,45	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000050	5,00	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000030	3,04	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000026	2,65	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000021	2,07	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489873	10,21	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489941	4,77	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489937	5,07	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489940	4,81	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489948	4,18	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799826	2,95	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799955	0,77	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799764	4,00	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799763	4,01	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799775	3,82	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800391	5,66	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800326	4,72	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800086	1,25	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800074	1,07	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800073	1,05	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000275	13,77	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000177	8,83	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000127	6,34	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000119	5,93	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000111	5,57	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799665	4,86	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799828	2,49	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799668	4,82	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799671	4,76	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799684	4,58	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980038	5,49	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049005	2,02	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000003	1,73	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048996	1,85	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979976	3,54	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980048	6,92	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000013	6,65	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979966	4,97	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,70	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004901	0,50	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,28	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,23	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,24	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	2,23	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000001	1,07	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,29	2,295E-06	PASS

SNR									
Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F			
50V Dual core	2000	123,0	12,0	128,3	0,00	PASS			
50V Dual core	10000	118,0	12,0	120,4	0,00	PASS			
50V Dual core	50000	111,0	12,0	113,8	0,00	PASS			
50V Dual core	100000	108,0	12,0	110,9	0,00	PASS			
50V	2000	108,0	12,0	109,4	0,00	PASS			
50V	10000	108,0	12,0	109,1	0,00	PASS			
50V	50000	106,0	12,0	107,7	0,00	PASS			
50V	100000	104,0	12,0	104,6	0,00	PASS			
10V Dual core	2000	128,0	12,0	130,5	0,00	PASS			
10V Dual core	10000	125,0	12,0	126,4	0,00	PASS			
10V Dual core	50000	119,0	12,0	120,4	0,00	PASS			
10V Dual core	100000	116,0	12,0	117,4	0,00	PASS			
10V	2000	108,0	12,0	109,5	0,00	PASS			
10V	10000	107,0	12,0	109,4	0,00	PASS			
10V	50000	107,0	12,0	108,7	0,00	PASS			
10V	100000	104,0	12,0	105,5	0,00	PASS			
1V Dual core	2000	119,0	12,0	121,2	0,00	PASS			
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS			
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS			
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS			
1V	2000	108,0	12,0	109,4	0,00	PASS			
1V	10000	107,0	12,0	108,4	0,00	PASS			
1V	50000	104,0	12,0	105,3	0,00	PASS			
1V	100000	101,0	12,0	102,3	0,00	PASS			
0.1V Dual core	2000	102,0	12,0	109,9	0,00	PASS			
0.1V Dual core	10000	100,0	12,0	102,8	0,00	PASS			
0.1V Dual core	50000	94,0	12,0	95,9	0,00	PASS			
0.1V Dual core	100000	92,0	12,0	92,9	0,00	PASS			
0.1V	2000	102,0	12,0	106,8	0,00	PASS			
0.1V	10000	100,0	12,0	102,0	0,00	PASS			
0.1V	50000	94,0	12,0	95,7	0,00	PASS			
0.1V	100000	91,0	12,0	92,8	0,00	PASS			

Low pass filter									
Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,58	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,18	0,79	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,35	7,74	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,59	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,48	1,05	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,49	24,59	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,00	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,03	3,52	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,22	7,33	1,107E-02	PASS

Excitation voltage									
Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F		
1,000000	0,002000	0,05	0,002500	1,000031	1,23	3,133E-05	PASS		
5,000000	0,002000	0,05	0,004500	5,000667	14,81	1,500E-04	PASS		
10,000000	0,002000	0,05	0,007000	10,000758	10,83	2,667E-04	PASS		
20,000000	0,002000	0,05	0,012000	20,001809	15,08	1,000E-03	PASS		

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100814	38,77	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999706	9,79	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,000916	7,63	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,997139	2,60	7,332E-03	PASS
44,000000	0,050000	0,50	0,270000	44,000748	0,28	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA53-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA53
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 3
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:11:53
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-48,999888	0,32	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450019	0,17	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	0,000010	0,10	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449986	0,12	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000316	0,92	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-48,999619	0,86	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	0,000279	1,40	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000585	1,31	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800200	3,39	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800182	3,08	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799982	0,64	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799959	0,69	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799956	0,75	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490060	4,85	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490018	1,41	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489995	0,41	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489991	0,69	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489993	0,59	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000050	5,03	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000013	1,32	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000007	0,75	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000008	0,81	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000005	0,52	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489946	4,32	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489982	1,46	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489955	3,65	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489959	3,33	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489955	3,64	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,800021	0,36	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,800033	0,56	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799749	4,26	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799751	4,23	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799751	4,23	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,799916	1,22	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800026	0,38	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,799988	0,18	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,799989	0,16	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,799995	0,07	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	0,000234	11,71	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	0,000142	7,10	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000033	1,66	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000038	1,89	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000044	2,21	7,752E-07	PASS

Certificate number: D00904EA53-101016

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Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,800306	4,43	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,800188	2,72	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799723	4,01	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799721	4,05	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799711	4,18	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980039	5,66	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049002	0,91	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000001	0,63	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048998	0,82	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979981	2,78	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980025	3,65	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	0,000013	6,27	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979995	0,78	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,86	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,23	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,00	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,03	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098001	0,76	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098001	0,99	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000001	1,30	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098002	1,63	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	125,4	0,00	PASS
50V Dual core	10000	118,0	12,0	119,8	0,00	PASS
50V Dual core	50000	111,0	12,0	113,2	0,00	PASS
50V Dual core	100000	108,0	12,0	110,4	0,00	PASS
50V	2000	108,0	12,0	109,4	0,00	PASS
50V	10000	108,0	12,0	109,0	0,00	PASS
50V	50000	106,0	12,0	107,7	0,00	PASS
50V	100000	104,0	12,0	104,5	0,00	PASS
10V Dual core	2000	128,0	12,0	130,7	0,00	PASS
10V Dual core	10000	125,0	12,0	126,3	0,00	PASS
10V Dual core	50000	119,0	12,0	120,3	0,00	PASS
10V Dual core	100000	116,0	12,0	117,4	0,00	PASS
10V	2000	108,0	12,0	109,5	0,00	PASS
10V	10000	107,0	12,0	109,4	0,00	PASS
10V	50000	107,0	12,0	108,7	0,00	PASS
10V	100000	104,0	12,0	105,5	0,00	PASS
1V Dual core	2000	119,0	12,0	121,2	0,00	PASS
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS
1V	2000	108,0	12,0	109,5	0,00	PASS
1V	10000	107,0	12,0	108,3	0,00	PASS
1V	50000	104,0	12,0	105,3	0,00	PASS
1V	100000	101,0	12,0	102,3	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,8	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,1	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,0	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,1	0,00	PASS
0.1V	2000	102,0	12,0	107,0	0,00	PASS
0.1V	10000	100,0	12,0	102,2	0,00	PASS
0.1V	50000	94,0	12,0	95,9	0,00	PASS
0.1V	100000	91,0	12,0	92,9	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,69	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,19	0,59	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,26	3,16	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,01	1,49	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,45	2,71	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,36	17,79	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,16	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,22	5,88	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,44	14,81	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999954	1,83	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	5,000259	5,76	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000665	9,50	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	19,999888	0,93	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100491	23,36	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999723	9,22	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,000129	1,07	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,999249	0,68	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	44,000274	0,10	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA54-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA54
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 4
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:11:56
Calibration status PASS
State As-let

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000211	0,61	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450055	0,49	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000040	0,40	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449950	0,44	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000407	1,18	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000156	0,35	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	0,000015	0,08	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000463	1,04	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800008	0,14	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800115	1,94	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,799980	0,35	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,799968	0,55	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,799974	0,45	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489971	2,29	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489997	0,21	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,489990	0,79	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,489995	0,41	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,489996	0,32	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000032	3,19	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	0,000007	0,70	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000004	0,35	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000009	0,92	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000009	0,94	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,490030	2,42	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,490006	0,49	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489967	2,62	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489960	3,17	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489962	3,06	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799954	0,77	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799992	0,14	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,799737	4,45	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,799735	4,49	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,799737	4,45	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800046	0,67	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800120	1,74	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800036	0,52	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800024	0,35	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800027	0,39	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000006	0,32	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	0,000002	0,09	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000060	3,00	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000066	3,29	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000063	3,15	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799916	1,22	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799986	0,20	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,799681	4,62	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,799678	4,66	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,799684	4,59	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980034	4,89	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049000	0,02	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	0,000001	0,42	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,049001	0,38	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979979	2,99	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980034	4,98	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	0,000000	0,11	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979979	3,08	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,22	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,18	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,06	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,03	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,02	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,15	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000000	0,000000	0,17	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,09	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	126,6	0,00	PASS
50V Dual core	10000	118,0	12,0	120,7	0,00	PASS
50V Dual core	50000	111,0	12,0	114,0	0,00	PASS
50V Dual core	100000	108,0	12,0	111,1	0,00	PASS
50V	2000	108,0	12,0	109,6	0,00	PASS
50V	10000	108,0	12,0	109,2	0,00	PASS
50V	50000	106,0	12,0	107,9	0,00	PASS
50V	100000	104,0	12,0	104,8	0,00	PASS
10V Dual core	2000	128,0	12,0	131,3	0,00	PASS
10V Dual core	10000	125,0	12,0	126,7	0,00	PASS
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,7	0,00	PASS
10V	10000	107,0	12,0	109,6	0,00	PASS
10V	50000	107,0	12,0	108,8	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,4	0,00	PASS
1V Dual core	10000	113,0	12,0	114,8	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS
1V	2000	108,0	12,0	109,4	0,00	PASS
1V	10000	107,0	12,0	108,4	0,00	PASS
1V	50000	104,0	12,0	105,3	0,00	PASS
1V	100000	101,0	12,0	102,3	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,4	0,00	PASS
0.1V Dual core	10000	100,0	12,0	102,8	0,00	PASS
0.1V Dual core	50000	94,0	12,0	95,9	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS
0.1V	2000	102,0	12,0	106,8	0,00	PASS
0.1V	10000	100,0	12,0	102,0	0,00	PASS
0.1V	50000	94,0	12,0	95,7	0,00	PASS
0.1V	100000	91,0	12,0	92,8	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,78	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,20	0,23	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,22	1,20	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,70	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,48	1,13	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,27	13,68	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,05	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-2,99	5,40	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,21	6,91	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999877	4,93	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	4,999978	0,49	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	9,999944	0,79	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,001478	12,32	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100417	19,87	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999948	1,74	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,000038	0,32	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	12,001575	1,43	7,334E-03	PASS
44,000000	0,050000	0,50	0,270000	44,015931	5,90	1,801E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA55-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA55
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 5
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:12:00
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-48,999887	0,33	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450001	0,01	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	0,000039	0,39	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,450024	0,21	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000382	1,11	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-48,999999	0,00	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000073	0,37	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000270	0,61	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800044	0,75	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800083	1,40	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800470	7,97	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800463	7,85	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800490	8,31	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490062	4,95	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490014	1,09	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490011	0,86	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490011	0,91	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490008	0,61	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000058	5,77	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000009	0,93	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000002	0,18	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000002	0,15	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	0,000000	0,04	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489926	5,94	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489985	1,19	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489992	0,60	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489992	0,66	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489996	0,32	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799719	4,76	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799914	1,46	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,800292	4,94	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800270	4,58	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800289	4,90	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800379	5,50	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800272	3,95	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800499	7,24	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800497	7,20	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800519	7,52	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000393	19,63	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000199	9,96	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000031	1,56	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000035	1,75	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000029	1,43	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,008900	9,799384	8,93	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,008900	9,799724	4,00	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,008900	9,800262	3,80	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,008900	9,800237	3,43	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,008900	9,800260	3,77	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980030	4,37	9,907E-08	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049002	0,98	1,535E-08	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000001	0,61	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048999	0,60	1,535E-08	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979974	3,83	9,907E-08	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980044	6,35	9,907E-08	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000015	7,44	7,752E-07	PASS
1V	10000	0,960000	0,000200	0,05	0,000690	0,979960	5,81	9,907E-08	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,15	2,295E-08	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,29	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,12	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,13	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,16	2,295E-08	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,98	2,295E-08	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	-0,000001	1,35	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,99	2,295E-08	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	126,2	0,00	PASS
50V Dual core	10000	118,0	12,0	120,1	0,00	PASS
50V Dual core	50000	111,0	12,0	113,5	0,00	PASS
50V Dual core	100000	108,0	12,0	110,6	0,00	PASS
50V	2000	108,0	12,0	109,7	0,00	PASS
50V	10000	108,0	12,0	109,2	0,00	PASS
50V	50000	106,0	12,0	107,7	0,00	PASS
50V	100000	104,0	12,0	104,6	0,00	PASS
10V Dual core	2000	128,0	12,0	131,1	0,00	PASS
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS
10V Dual core	50000	119,0	12,0	120,4	0,00	PASS
10V Dual core	100000	116,0	12,0	117,5	0,00	PASS
10V	2000	108,0	12,0	109,5	0,00	PASS
10V	10000	107,0	12,0	109,5	0,00	PASS
10V	50000	107,0	12,0	108,8	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,3	0,00	PASS
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS
1V	2000	108,0	12,0	109,2	0,00	PASS
1V	10000	107,0	12,0	108,4	0,00	PASS
1V	50000	104,0	12,0	105,4	0,00	PASS
1V	100000	101,0	12,0	102,3	0,00	PASS
0.1V Dual core	2000	102,0	12,0	110,1	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,1	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,1	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,1	0,00	PASS
0.1V	2000	102,0	12,0	106,9	0,00	PASS
0.1V	10000	100,0	12,0	102,2	0,00	PASS
0.1V	50000	94,0	12,0	95,9	0,00	PASS
0.1V	100000	91,0	12,0	92,9	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,69	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,19	0,63	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,25	2,36	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,54	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,46	2,10	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,44	22,24	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,13	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-2,98	5,94	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,22	7,42	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000021	0,84	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	5,001424	31,65	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000949	13,56	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,000904	7,53	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100486	23,16	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999909	3,03	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,001308	10,90	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,998259	1,58	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	44,003397	1,26	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA56-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA56
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 6
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:12:03
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000196	0,57	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450037	0,33	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000019	0,19	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449978	0,19	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000329	0,95	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000201	0,45	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000023	0,12	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000325	0,73	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800161	2,72	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800223	3,79	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800559	9,47	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800545	9,23	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800561	9,51	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,490023	1,85	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,490014	1,11	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490021	1,65	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490019	1,52	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490019	1,55	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	-0,000023	2,26	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000008	0,82	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000010	0,96	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000006	0,59	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000007	0,73	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489972	2,22	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489990	0,77	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489985	1,18	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489988	1,00	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489988	0,95	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799949	0,87	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,800026	0,44	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,800319	5,41	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800298	5,05	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800321	5,44	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800185	2,68	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800243	3,53	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800597	8,65	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800585	8,49	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800597	8,66	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000047	2,35	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000028	1,41	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000048	2,39	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000047	2,33	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000043	2,16	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799925	1,09	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,800006	0,08	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,800281	4,07	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,800258	3,73	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,800285	4,13	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980045	6,52	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049002	0,86	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000001	0,56	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048999	0,59	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979981	2,71	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980046	6,60	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000002	0,87	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979981	2,80	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,74	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,31	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,07	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,02	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,19	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098003	1,70	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,01	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098000	0,24	2,295E-06	PASS

SNR									
Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F			
50V Dual core	2000	123,0	12,0	125,4	0,00	PASS			
50V Dual core	10000	118,0	12,0	120,3	0,00	PASS			
50V Dual core	50000	111,0	12,0	113,8	0,00	PASS			
50V Dual core	100000	108,0	12,0	110,9	0,00	PASS			
50V	2000	108,0	12,0	109,7	0,00	PASS			
50V	10000	108,0	12,0	109,3	0,00	PASS			
50V	50000	106,0	12,0	107,9	0,00	PASS			
50V	100000	104,0	12,0	104,7	0,00	PASS			
10V Dual core	2000	128,0	12,0	131,2	0,00	PASS			
10V Dual core	10000	125,0	12,0	126,6	0,00	PASS			
10V Dual core	50000	119,0	12,0	120,5	0,00	PASS			
10V Dual core	100000	116,0	12,0	117,6	0,00	PASS			
10V	2000	108,0	12,0	109,5	0,00	PASS			
10V	10000	107,0	12,0	109,5	0,00	PASS			
10V	50000	107,0	12,0	108,8	0,00	PASS			
10V	100000	104,0	12,0	105,6	0,00	PASS			
1V Dual core	2000	119,0	12,0	121,3	0,00	PASS			
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS			
1V Dual core	50000	106,0	12,0	107,9	0,00	PASS			
1V Dual core	100000	103,0	12,0	104,9	0,00	PASS			
1V	2000	108,0	12,0	109,3	0,00	PASS			
1V	10000	107,0	12,0	108,5	0,00	PASS			
1V	50000	104,0	12,0	105,4	0,00	PASS			
1V	100000	101,0	12,0	102,3	0,00	PASS			
0.1V Dual core	2000	102,0	12,0	109,6	0,00	PASS			
0.1V Dual core	10000	100,0	12,0	102,8	0,00	PASS			
0.1V Dual core	50000	94,0	12,0	96,0	0,00	PASS			
0.1V Dual core	100000	92,0	12,0	93,0	0,00	PASS			
0.1V	2000	102,0	12,0	106,9	0,00	PASS			
0.1V	10000	100,0	12,0	102,3	0,00	PASS			
0.1V	50000	94,0	12,0	95,8	0,00	PASS			
0.1V	100000	91,0	12,0	92,9	0,00	PASS			

Low pass filter									
Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,64	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,20	0,13	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,36	7,79	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,01	1,49	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,47	1,68	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,46	23,03	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,00	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,03	3,43	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,19	6,32	1,107E-02	PASS

Excitation voltage							
Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	0,999952	1,93	3,133E-05	PASS
5,000000	0,002000	0,05	0,004500	4,999042	21,30	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	9,999164	11,95	2,666E-04	PASS
20,000000	0,002000	0,05	0,012000	19,999248	6,27	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100417	19,87	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000431	14,36	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,000853	7,11	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,997742	2,05	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	43,985370	5,42	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA57-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA57
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 7
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:12:06
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-49,000194	0,56	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450043	0,39	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	0,000002	0,02	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449984	0,14	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000491	1,42	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-49,000221	0,50	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000024	0,12	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	49,000465	1,04	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800135	2,29	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800178	3,02	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800464	7,86	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800460	7,80	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800482	8,16	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489994	0,48	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489999	0,04	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490013	1,01	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490010	0,82	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490008	0,64	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000010	0,96	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	0,000004	0,35	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000002	0,20	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	0,000000	0,01	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	0,000000	0,02	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,490008	0,68	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,490002	0,17	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489987	1,04	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489991	0,70	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489991	0,71	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,800024	0,40	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,800035	0,59	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,800253	4,29	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800238	4,03	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800256	4,34	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800015	0,22	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800120	1,74	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800523	7,59	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800521	7,55	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800545	7,90	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	0,000130	6,50	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	0,000062	3,11	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000061	3,07	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000060	3,02	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000063	3,17	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,800144	2,09	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,800093	1,35	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,800194	2,81	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,800177	2,57	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,800193	2,80	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980040	5,75	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049000	0,12	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	0,000001	0,59	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,049001	0,45	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979987	1,93	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980035	5,08	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	0,000006	2,91	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979991	1,26	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,54	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,13	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,08	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,09	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,098001	0,40	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,18	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000001	0,61	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,098001	0,76	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	125,2	0,00	PASS
50V Dual core	10000	118,0	12,0	119,9	0,00	PASS
50V Dual core	50000	111,0	12,0	113,2	0,00	PASS
50V Dual core	100000	108,0	12,0	110,4	0,00	PASS
50V	2000	108,0	12,0	109,6	0,00	PASS
50V	10000	108,0	12,0	109,3	0,00	PASS
50V	50000	106,0	12,0	107,7	0,00	PASS
50V	100000	104,0	12,0	104,5	0,00	PASS
10V Dual core	2000	128,0	12,0	131,0	0,00	PASS
10V Dual core	10000	125,0	12,0	126,4	0,00	PASS
10V Dual core	50000	119,0	12,0	120,2	0,00	PASS
10V Dual core	100000	116,0	12,0	117,3	0,00	PASS
10V	2000	108,0	12,0	109,7	0,00	PASS
10V	10000	107,0	12,0	109,5	0,00	PASS
10V	50000	107,0	12,0	108,8	0,00	PASS
10V	100000	104,0	12,0	105,6	0,00	PASS
1V Dual core	2000	119,0	12,0	121,4	0,00	PASS
1V Dual core	10000	113,0	12,0	114,6	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS
1V	2000	108,0	12,0	109,5	0,00	PASS
1V	10000	107,0	12,0	108,3	0,00	PASS
1V	50000	104,0	12,0	105,3	0,00	PASS
1V	100000	101,0	12,0	102,3	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,7	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,2	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,1	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,2	0,00	PASS
0.1V	2000	102,0	12,0	106,9	0,00	PASS
0.1V	10000	100,0	12,0	102,3	0,00	PASS
0.1V	50000	94,0	12,0	96,0	0,00	PASS
0.1V	100000	91,0	12,0	93,0	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,82	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,20	0,22	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,18	0,93	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,66	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,47	1,31	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,39	19,40	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,16	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,19	4,65	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,36	12,04	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000165	6,62	3,134E-05	PASS
5,000000	0,002000	0,05	0,004500	5,000413	9,18	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	10,000896	12,80	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,000882	7,35	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100516	24,60	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	1,000250	8,32	1,667E-03	PASS
10,000000	0,002000	0,10	0,012000	10,000288	2,40	4,667E-03	PASS
12,000000	0,050000	0,50	0,110000	11,999723	0,25	7,333E-03	PASS
44,000000	0,050000	0,50	0,270000	44,002040	0,76	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS

REPORT OF CALIBRATION

Certificate number: D00904EA58-101016



DEWESoft®
measurement innovation

Unit under test SIRIUS-STG
Serial number D00904EA58
Hardware version 1.5.0.0
Firmware version 1.17
System SN D00BFFDA8B
Motherboard SN D006A28C27
Slot 8
Procedure name SIRIUS-STG check
Procedure version 4.7
Confidence level 95% (sigma 2)
Temperature 23,0 °C
Humidity 45%
Performed by Loic Renaudin
Location DEWEFRANCE
Calibration date 10.10.2016 17:12:10
Calibration status PASS
State As-left

Devices used for calibration

Company	Name	Description	Serial number	Certificate number	Due date
DEWESoft	DS-CAL 1 (V3)	Calibration board	D02FC4B6C9	/	/
FLUKE	5520A	Calibrator	7080211	1594241	15.02.2017
Agilent	34401A	Multimeter	3146A27101	155413	03.12.2016

Analog input accuracy

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	PIF
50V Dual core	10000	-49,000000	0,010000	0,05	0,034500	-48,999832	0,49	8,000E-04	PASS
50V Dual core	10000	-2,450000	0,010000	0,05	0,011225	-2,450017	0,15	2,244E-05	PASS
50V Dual core	10000	0,000000	0,010000	0,05	0,010000	-0,000021	0,21	7,752E-07	PASS
50V Dual core	10000	2,450000	0,010000	0,05	0,011225	2,449961	0,35	2,244E-05	PASS
50V Dual core	10000	49,000000	0,010000	0,05	0,034500	49,000029	0,08	8,000E-04	PASS
50V	10000	-49,000000	0,020000	0,05	0,044500	-48,999911	0,20	8,000E-04	PASS
50V	10000	0,000000	0,020000	0,05	0,020000	-0,000100	0,50	7,752E-07	PASS
50V	10000	49,000000	0,020000	0,05	0,044500	48,999950	0,11	8,000E-04	PASS
10V Dual core	2000	-9,800000	0,001000	0,05	0,005900	-9,800164	2,78	1,067E-04	PASS
10V Dual core	10000	-9,800000	0,001000	0,05	0,005900	-9,800097	1,64	1,067E-04	PASS
10V Dual core	50000	-9,800000	0,001000	0,05	0,005900	-9,800426	7,21	1,067E-04	PASS
10V Dual core	100000	-9,800000	0,001000	0,05	0,005900	-9,800431	7,31	1,067E-04	PASS
10V Dual core	200000	-9,800000	0,001000	0,05	0,005900	-9,800449	7,62	1,067E-04	PASS
10V Dual core	2000	-0,490000	0,001000	0,05	0,001245	-0,489996	0,32	5,729E-06	PASS
10V Dual core	10000	-0,490000	0,001000	0,05	0,001245	-0,489999	0,08	5,729E-06	PASS
10V Dual core	50000	-0,490000	0,001000	0,05	0,001245	-0,490017	1,34	5,729E-06	PASS
10V Dual core	100000	-0,490000	0,001000	0,05	0,001245	-0,490012	0,96	5,729E-06	PASS
10V Dual core	200000	-0,490000	0,001000	0,05	0,001245	-0,490011	0,89	5,729E-06	PASS
10V Dual core	2000	0,000000	0,001000	0,05	0,001000	0,000004	0,36	7,752E-07	PASS
10V Dual core	10000	0,000000	0,001000	0,05	0,001000	-0,000002	0,23	7,752E-07	PASS
10V Dual core	50000	0,000000	0,001000	0,05	0,001000	-0,000009	0,90	7,752E-07	PASS
10V Dual core	100000	0,000000	0,001000	0,05	0,001000	-0,000006	0,65	7,752E-07	PASS
10V Dual core	200000	0,000000	0,001000	0,05	0,001000	-0,000007	0,71	7,752E-07	PASS
10V Dual core	2000	0,490000	0,001000	0,05	0,001245	0,489991	0,70	5,729E-06	PASS
10V Dual core	10000	0,490000	0,001000	0,05	0,001245	0,489990	0,78	5,729E-06	PASS
10V Dual core	50000	0,490000	0,001000	0,05	0,001245	0,489984	1,25	5,729E-06	PASS
10V Dual core	100000	0,490000	0,001000	0,05	0,001245	0,489987	1,02	5,729E-06	PASS
10V Dual core	200000	0,490000	0,001000	0,05	0,001245	0,489988	0,95	5,729E-06	PASS
10V Dual core	2000	9,800000	0,001000	0,05	0,005900	9,799971	0,48	1,067E-04	PASS
10V Dual core	10000	9,800000	0,001000	0,05	0,005900	9,799901	1,67	1,067E-04	PASS
10V Dual core	50000	9,800000	0,001000	0,05	0,005900	9,800152	2,58	1,067E-04	PASS
10V Dual core	100000	9,800000	0,001000	0,05	0,005900	9,800141	2,39	1,067E-04	PASS
10V Dual core	200000	9,800000	0,001000	0,05	0,005900	9,800144	2,44	1,067E-04	PASS
10V	2000	-9,800000	0,002000	0,05	0,006900	-9,800270	3,92	1,067E-04	PASS
10V	10000	-9,800000	0,002000	0,05	0,006900	-9,800137	1,99	1,067E-04	PASS
10V	50000	-9,800000	0,002000	0,05	0,006900	-9,800435	6,30	1,067E-04	PASS
10V	100000	-9,800000	0,002000	0,05	0,006900	-9,800438	6,34	1,067E-04	PASS
10V	200000	-9,800000	0,002000	0,05	0,006900	-9,800454	6,58	1,067E-04	PASS
10V	2000	0,000000	0,002000	0,05	0,002000	-0,000102	5,12	7,752E-07	PASS
10V	10000	0,000000	0,002000	0,05	0,002000	-0,000043	2,14	7,752E-07	PASS
10V	50000	0,000000	0,002000	0,05	0,002000	-0,000018	0,91	7,752E-07	PASS
10V	100000	0,000000	0,002000	0,05	0,002000	-0,000013	0,65	7,752E-07	PASS
10V	200000	0,000000	0,002000	0,05	0,002000	-0,000012	0,58	7,752E-07	PASS

Range	SR [Hz]	Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
10V	2000	9,800000	0,002000	0,05	0,006900	9,799865	1,95	1,067E-04	PASS
10V	10000	9,800000	0,002000	0,05	0,006900	9,799861	2,02	1,067E-04	PASS
10V	50000	9,800000	0,002000	0,05	0,006900	9,800143	2,07	1,067E-04	PASS
10V	100000	9,800000	0,002000	0,05	0,006900	9,800135	1,95	1,067E-04	PASS
10V	200000	9,800000	0,002000	0,05	0,006900	9,800139	2,02	1,067E-04	PASS
1V Dual core	10000	-0,980000	0,000200	0,05	0,000690	-0,980031	4,52	9,907E-06	PASS
1V Dual core	10000	-0,049000	0,000200	0,05	0,000225	-0,049001	0,40	1,535E-06	PASS
1V Dual core	10000	0,000000	0,000200	0,05	0,000200	-0,000001	0,27	7,752E-07	PASS
1V Dual core	10000	0,049000	0,000200	0,05	0,000225	0,048999	0,43	1,535E-06	PASS
1V Dual core	10000	0,980000	0,000200	0,05	0,000690	0,979972	4,01	9,907E-06	PASS
1V	10000	-0,980000	0,000200	0,05	0,000690	-0,980033	4,83	9,907E-06	PASS
1V	10000	0,000000	0,000200	0,05	0,000200	-0,000003	1,33	7,752E-07	PASS
1V	10000	0,980000	0,000200	0,05	0,000690	0,979970	4,32	9,907E-06	PASS
0.1V Dual core	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,04	2,295E-06	PASS
0.1V Dual core	10000	-0,004900	0,000100	0,05	0,000102	-0,004900	0,24	8,512E-07	PASS
0.1V Dual core	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,04	7,752E-07	PASS
0.1V Dual core	10000	0,004900	0,000100	0,05	0,000102	0,004900	0,21	8,512E-07	PASS
0.1V Dual core	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,56	2,295E-06	PASS
0.1V	10000	-0,098000	0,000100	0,05	0,000149	-0,098002	1,23	2,295E-06	PASS
0.1V	10000	0,000000	0,000100	0,05	0,000100	0,000000	0,32	7,752E-07	PASS
0.1V	10000	0,098000	0,000100	0,05	0,000149	0,097999	0,75	2,295E-06	PASS

SNR

Range	SR [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	P/F
50V Dual core	2000	123,0	12,0	124,9	0,00	PASS
50V Dual core	10000	118,0	12,0	119,4	0,00	PASS
50V Dual core	50000	111,0	12,0	112,8	0,00	PASS
50V Dual core	100000	108,0	12,0	110,0	0,00	PASS
50V	2000	108,0	12,0	109,0	0,00	PASS
50V	10000	108,0	12,0	108,6	0,00	PASS
50V	50000	106,0	12,0	107,0	0,00	PASS
50V	100000	104,0	12,0	104,1	0,00	PASS
10V Dual core	2000	128,0	12,0	130,9	0,00	PASS
10V Dual core	10000	125,0	12,0	126,7	0,00	PASS
10V Dual core	50000	119,0	12,0	120,3	0,00	PASS
10V Dual core	100000	116,0	12,0	117,4	0,00	PASS
10V	2000	108,0	12,0	108,9	0,00	PASS
10V	10000	107,0	12,0	108,8	0,00	PASS
10V	50000	107,0	12,0	108,1	0,00	PASS
10V	100000	104,0	12,0	105,2	0,00	PASS
1V Dual core	2000	119,0	12,0	121,1	0,00	PASS
1V Dual core	10000	113,0	12,0	114,7	0,00	PASS
1V Dual core	50000	106,0	12,0	107,8	0,00	PASS
1V Dual core	100000	103,0	12,0	104,8	0,00	PASS
1V	2000	108,0	12,0	108,8	0,00	PASS
1V	10000	107,0	12,0	107,8	0,00	PASS
1V	50000	104,0	12,0	105,1	0,00	PASS
1V	100000	101,0	12,0	102,1	0,00	PASS
0.1V Dual core	2000	102,0	12,0	109,6	0,00	PASS
0.1V Dual core	10000	100,0	12,0	103,0	0,00	PASS
0.1V Dual core	50000	94,0	12,0	96,2	0,00	PASS
0.1V Dual core	100000	92,0	12,0	93,2	0,00	PASS
0.1V	2000	102,0	12,0	106,9	0,00	PASS
0.1V	10000	100,0	12,0	102,2	0,00	PASS
0.1V	50000	94,0	12,0	96,0	0,00	PASS
0.1V	100000	91,0	12,0	93,0	0,00	PASS

Low pass filter

Name	Range	SR [Hz]	Frequency [Hz]	Typical [dB]	Max tol. [dB]	Measured [dB]	% of tol	Uncert. [dB]	P/F
LP 100kHz	50V	200000	10000	0,00	1,00	-0,05	4,90	5,954E-03	PASS
LP 100kHz	50V	200000	50000	-1,20	2,00	-1,22	0,94	1,107E-02	PASS
LP 100kHz	50V	200000	95000	-13,20	2,00	-13,27	3,48	4,124E-02	PASS
LP 100kHz	10V	200000	10000	0,00	1,00	-0,02	1,64	5,954E-03	PASS
LP 100kHz	10V	200000	50000	-0,50	2,00	-0,48	1,11	1,107E-02	PASS
LP 100kHz	10V	200000	95000	-11,00	2,00	-11,56	27,94	4,124E-02	PASS
LP 5kHz	10V	200000	500	0,00	1,00	0,00	0,03	5,954E-03	PASS
LP 5kHz	10V	200000	5000	-3,10	2,00	-3,06	2,22	5,954E-03	PASS
LP 5kHz	10V	200000	50000	-40,00	3,00	-40,22	7,34	1,107E-02	PASS

Excitation voltage

Reference [V]	Abs tol. [V]	Rel tol. [%]	Max tol. [V]	Measured [V]	% of tol	Uncert. [V]	P/F
1,000000	0,002000	0,05	0,002500	1,000181	7,24	3,134E-05	PASS
5,000000	0,002000	0,05	0,004500	5,000753	16,74	1,500E-04	PASS
10,000000	0,002000	0,05	0,007000	9,999821	2,55	2,667E-04	PASS
20,000000	0,002000	0,05	0,012000	20,001368	11,40	1,000E-03	PASS

Excitation current

Reference [mA]	Abs tol. [mA]	Rel tol. [%]	Max tol. [mA]	Measured [mA]	% of tol	Uncert. [mA]	P/F
0,100000	0,002000	0,10	0,002100	0,100758	36,10	1,367E-03	PASS
1,000000	0,002000	0,10	0,003000	0,999965	1,17	1,867E-03	PASS
10,000000	0,002000	0,10	0,012000	10,004439	36,99	4,668E-03	PASS
12,000000	0,050000	0,50	0,110000	12,001403	1,28	7,334E-03	PASS
44,000000	0,050000	0,50	0,270000	44,008264	3,06	1,800E-02	PASS

Bridge

Bridge mode	Voltage	Balanced	Debalanced	Shunts	P/F
Full bridge	PASS	PASS	PASS	PASS	PASS
Half bridge	PASS	PASS	PASS	PASS	PASS
Quarter bridge 120 Ohm	-	PASS	PASS	PASS	PASS
Quarter bridge 350 Ohm	-	PASS	PASS	PASS	PASS

Functionality tests

Description	P/F
Single ended/differential mode	PASS
TEDS	PASS