Change of The ACCELEROMETER JCSS calibration uncertainty

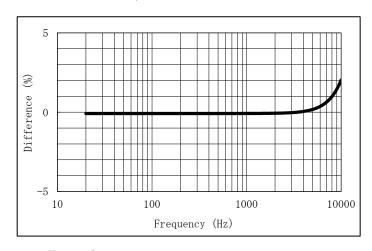
January 2022 RION CO., LTD.

We have changed the specified standard accelerometer in ACCELEROMETER JCSS calibration since the calibration request in November 2021. This has changed expanded uncertainty of calibration. Assignment charge sensitivity (calibrated value) at higher frequency also has changed. (It is now closer to the true value.) This has changed expanded uncertainty of calibration. Assignment charge sensitivity (calibrated value) at higher frequency also has changed. (It is now closer to the actual value.)

Expanded Uncertainty

	Before the change		After the change	
Enganonar	(%)		(%)	
Frequency		PV-85		PV-85
(Hz)	PV-03	PV-86	PV-03	PV-86
		PV-90H		PV-90H
20	1.3	2.0	1.2	2.5
25	1.8	2.3	1.6	2.5
31.5	1.9	2.4	1.7	2.5
40	1.3	1.6	1.3	1.8
50	1.2	1.5	1.3	1.8
63	1.3	1.5	1.1	1.6
80	1.3	1.5	1.2	1.6
100	2.0	2.4	1.5	2.3
125	2.6	3.2	1.9	3.0
160	1.4	1.6	1.3	1.7
200	2.1	2.6	1.6	2.5
250	1.4	1.7	1.2	1.7
315	1.3	1.5	1.1	1.5
400	3.0	3.8	2.2	3.6
500	3.0	3.8	2.4	3.7
630	1.2	1.3	1.0	1.4
800	1.2	1.3	1.0	1.3
1000	1.1	1.3	1.0	1.4
1250	1.2	1.4	1.0	1.5
1600	1.5	1.8	1.4	1.9
2000	2.0	2.4	1.6	2.5
2500	2.5	3.1	1.9	3.0
3150	1.6	1.9	1.6	2.1
4000	2.0	2.4	1.6	2.4
5000	2.9	3.6	2.1	3.5
6300	3.0	3.8	2.3	3.9
8000	2.6	2.7	2.3	3.0
10000	2.6	3.9	1.9	4.6

Difference of assignment value (calibrated value) before and after the change of specified standard accelerometer (Representative value)



Example:

Assuming the assignment charge sensitivity (calibrated value) at 10 kHz of PV-90H (serial number 12345) is 0.3000 pC·s²/m, calibrated on October 1, 2021; the assignment charge sensitivity (calibrated value) at 10 kHz of PV-90H (serial number 12345) calibrated on December 27, 2021 is 0.3060 pC·s²/m. (Because difference at 10 kHz is about 2 %, 0.3000 pC·s²/m + 0.3000 pC·s²/m \times 2 % = 0.3060 pC·s²/m.)

There is no difference in assignment charge sensitivity (calibrated value) at 80 kHz between October 1, 2021 and December 27, 2021. (Because difference at 80 Hz is 0 %.)