

## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CG06090002	Model No.: CG-06	Extended uncertainty: ≤0.05%(k=2)
Device name: Coriolis mass flow meter	Transmitter No.: 1501068	Certificate No.: RN-2015121932	
Manufacturer: Zhejiang Sealand Technology Co., Ltd.	Flow rage: (0.06~1.20)t/h	Housing sealing: Pass	Test result
Based on: JYG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: -0.12%
AT.: 16.8°C      RH.: 44%	Pulse equivalent: 10000.00001/kg	Parameter: 71657	Repeatability: 0.03%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 15.26°C	Medium pressure: 0.220MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
1.203	1	59.401	1.203	19.845	19.864	14156	238.31	15.26	0.22	999.057	198356	19.836	-0.05	-0.028	0.015
	2	59.98	1.203	20.036	20.055	14298	238.38	15.27	0.22	999.057	200324	20.032	-0.02		
	3	59.196	1.203	19.78	19.798	14113	238.41	15.23	0.22	999.062	197756	19.776	-0.02		
0.604	1	59.682	0.604	10.012	10.021	7130	119.47	15.2	0.218	999.067	100190	10.019	0.08	0.074	0.001
	2	59.651	0.604	10.013	10.022	7131	119.54	15.2	0.218	999.067	100199	10.02	0.07		
	3	59.135	0.604	9.921	9.931	7072	119.59	15.21	0.218	999.066	99287	9.929	0.07		
0.298	1	59.213	0.298	4.9	4.905	3436	58.03	15.19	0.221	999.068	49027	4.903	0.05	0.059	0.007
	2	59.213	0.298	4.902	4.907	3452	58.3	15.19	0.221	999.069	49054	4.905	0.07		
	3	59.228	0.298	4.905	4.91	3452	58.28	15.19	0.221	999.069	49080	4.908	0.06		
0.12	1	59.774	0.12	1.997	1.999	1368	22.89	15.18	0.222	999.07	19973	1.997	0.01	0.002	0.008
	2	59.681	0.12	1.993	1.995	1372	22.99	15.19	0.222	999.069	19930	1.993	-0.01		
	3	59.322	0.12	1.982	1.984	1364	22.99	15.18	0.222	999.07	19821	1.982	0.00		
0.061	1	59.493	0.061	1.007	1.008	685	11.51	15.18	0.222	999.07	10061	1.006	-0.10	-0.122	0.025
	2	59.932	0.061	1.014	1.015	684	11.41	15.18	0.222	999.07	10128	1.013	-0.13		
	3	59.166	0.061	1.002	1.003	678	11.46	15.18	0.222	999.07	10006	1.001	-0.15		
1.205	1	59.541	1.205	19.929	19.947	14250	239.33	15.18	0.22	999.07	199219	19.922	-0.04	-0.026	0.008
	2	59.307	1.205	19.852	19.87	14185	239.18	15.18	0.22	999.07	198472	19.847	-0.02		
	3	59.76	1.205	20.004	20.023	14282	238.99	15.18	0.22	999.07	200000	20	-0.02		

Zero point: R: +x~-x      C: 113x114x      B: -17x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2017/3/7      Validity: 2018/3/6      Test site: Flowlab



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## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CNG-15	Model No.: CNG-15	Extended uncertainty: $\leq 0.05\%(k=2)$
Device name: Coriolis mass flow meter	Transmitter No.: F231D	Certificate No.: RN-2015121932	
Manufacturer: Zhejiang Sealand Technology Co., Ltd.	Flow range: (0.06~3.0)t/h	Housing sealing: Pass	Test result
Based on: JJG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: 0.02%
AT.: 19.5°C      RH.: 44%	Pulse equivalent: 10000.00001/kg	Parameter: 563022	Repeatability: 0.03%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 15.31°C	Medium pressure: 0.246MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
3.001	1	59.774	3.001	49.823	49.871	35498	593.87	15.31	0.246	999.05	498210	49.821	-0.01	-0.01	0.009
	2	59.885	3.002	49.933	49.981	35583	594.19	15.31	0.246	999.05	499308	49.931	-0.01		
	3	59.227	3	49.361	49.408	35177	593.93	15.31	0.245	999.05	493505	49.35	-0.02		
1.497	1	60.009	1.497	24.956	24.98	17774	296.19	15.31	0.241	999.051	249545	24.955	-0.01	-0.005	0.014
	2	59.292	1.497	24.649	24.672	17553	296.04	15.3	0.241	999.052	246443	24.644	-0.02		
	3	59.119	1.496	24.564	24.587	17507	296.13	15.3	0.241	999.052	245662	24.566	0.01		
0.607	1	59.541	0.607	10.038	10.047	7146	120.02	15.29	0.239	999.053	100384	10.038	0.01	-0.001	0.01
	2	59.948	0.607	10.116	10.125	7190	119.94	15.3	0.239	999.053	101154	10.115	0.00		
	3	59.573	0.607	10.052	10.061	7144	119.92	15.29	0.239	999.053	100505	10.05	-0.01		
0.2983	1	59.088	0.298	4.887	4.892	3432	58.08	15.29	0.237	999.053	48882	4.888	0.02	0.018	0.004
	2	59.12	0.299	4.905	4.91	3461	58.54	15.29	0.237	999.053	49059	4.906	0.02		
	3	59.213	0.298	4.895	4.9	3436	58.03	15.3	0.237	999.052	48960	4.896	0.02		
0.13	1	59.87	0.13	2.162	2.164	1475	24.64	15.3	0.234	999.052	21624	2.162	0.01	-0.001	0.009
	2	59.432	0.13	2.148	2.15	1470	24.73	15.29	0.234	999.054	21483	2.148	0.00		
	3	59.557	0.13	2.151	2.153	1471	24.7	15.29	0.234	999.053	21510	2.151	-0.01		
0.064	1	60.012	0.064	1.067	1.068	720	12	15.29	0.235	999.054	10668	1.067	-0.03	-0.007	0.025
	2	59.167	0.064	1.052	1.053	710	12	15.29	0.235	999.054	10523	1.052	0.02		
	3	59.37	0.064	1.056	1.057	713	12.01	15.28	0.235	999.055	10560	1.056	-0.01		

Zero point: R: +x~-x      C: -197x~-198x      B: -26x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2017/3/29      Validity: 2018/3/28      Test site: Flowlab



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## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CG15080021	Model No. CG-15	Extended uncertainty: ≤0.05%(k=2)
Device name: Coriolis mass flow meter	Transmitter No.: F231D080044	Certificate No.: RN-2015121932	
Manufacturer Zhejiang Sealand Technology Co., Ltd.	Flow rage: (0.06~3.0)t/h	Housing sealing: Pass	Test result
Based on: JIG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: 0.03%
AT.: 13.30°C      RH.: 57%	Pulse equivalent: 10000.00001/kg	Parameter: 310349	Repeatability: 0.01%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 16.20°C	Medium pressure 0.252MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
3.018	1	59.135	3.019	49.584	49.638	35367	598.07	16.2	0.252	998.908	495724	49.572	-0.02	-0.017	0.013
	2	59.727	3.018	50.079	50.133	35716	597.99	16.22	0.252	998.905	500659	50.066	-0.03		
	3	59.977	3.018	50.288	50.343	35870	598.06	16.22	0.252	998.905	502866	50.287	0.00		
1.503	1	59.633	1.503	24.901	24.928	17771	298.01	16.23	0.233	998.903	249012	24.901	0.00	-0.002	0.008
	2	59.822	1.503	24.977	25.005	17819	297.86	16.23	0.233	998.904	249744	24.974	-0.01		
	3	59.398	1.503	24.795	24.822	17703	298.04	16.24	0.233	998.902	247963	24.796	0.01		
0.6	1	59.961	0.6	10	10.011	7133	118.96	16.22	0.237	998.905	100005	10	0.00	-0.011	0.01
	2	59.353	0.6	9.898	9.909	7048	118.75	16.22	0.238	998.905	98969	9.897	-0.02		
	3	59.837	0.6	9.973	9.984	7098	118.62	16.24	0.238	998.902	99717	9.972	-0.02		
0.303	1	59.916	0.303	5.041	5.047	3562	59.45	16.26	0.239	998.899	50420	5.042	0.01	0.02	0.008
	2	59.229	0.303	4.988	4.994	3537	59.72	16.25	0.239	998.899	49897	4.99	0.03		
	3	59.276	0.303	4.989	4.995	3525	59.47	16.26	0.239	998.899	49901	4.99	0.02		
0.125	1	59.384	0.125	2.066	2.068	1426	24.01	16.25	0.24	998.9	20668	2.067	0.03	0.029	0.003
	2	59.744	0.125	2.079	2.081	1434	24	16.26	0.24	998.898	20797	2.08	0.03		
	3	59.37	0.125	2.064	2.066	1426	24.02	16.26	0.24	998.899	20648	2.065	0.03		
0.061	1	59.9	0.061	1.015	1.016	679	11.34	16.25	0.24	998.9	10149	1.015	-0.02	-0.009	0.006
	2	59.947	0.061	1.018	1.019	689	11.49	16.25	0.24	998.899	10180	1.018	-0.01		
	3	59.166	0.061	1.005	1.006	676	11.43	16.25	0.24	998.899	10050	1.005	-0.01		

Zero point: R: +x~-x      C: 149x~-150x      B: +34x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2017/1/14      Validity: 2018/1/13      Test site: Flowlab



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## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CG25	Model No.: CG-25	Extended uncertainty: ≤0.05%(k=2)
Device name: Coriolis mass flow meter	Transmitter No.: F231D080044	Certificate No.: RN-2015121932	
Manufacturer: Zhejiang Sealand Technology Co., Ltd.	Flow range: (0.60~60.00)t/h	Housing sealing: Pass	Test result
Based on: JIG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: 0.14%
AT.: 15.00°C      RH.: 60%	Pulse equivalent: 20000.00001/kg	Parameter: 574062	Repeatability: 0.04%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 19.77°C	Medium pressure: 0.384MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
11.89	1	59.705	11.893	197.247	197.593	141029	2362.09	19.77	0.384	998.249	394514	197.257	0.01	0.003	0.002
	2	59.909	11.894	197.928	198.275	141493	2361.81	19.77	0.384	998.249	395869	197.934	0.00		
	3	59.392	11.889	196.136	196.48	140219	2360.91	19.77	0.384	998.25	392274	196.137	0.00		
3.025	1	59.639	3.024	50.103	50.19	35620	597.26	19.77	0.259	998.25	100164	50.082	-0.04	-0.031	0.009
	2	59.988	3.025	50.413	50.501	35863	597.84	19.77	0.26	998.25	100798	50.399	-0.03		
	3	59.986	3.027	50.433	50.521	35872	598.01	19.76	0.26	998.251	100843	50.422	-0.02		
0.644	1	59.486	0.644	10.641	10.66	7553	126.97	19.77	0.26	998.25	21266	10.633	-0.08	-0.091	0.017
	2	59.955	0.644	10.731	10.75	7616	127.03	19.77	0.26	998.25	21439	10.719	-0.11		
	3	59.97	0.644	10.731	10.75	7618	127.03	19.76	0.26	998.251	21444	10.722	-0.09		
0.3043	1	59.343	0.305	5.024	5.033	3549	59.81	19.77	0.22	998.25	10061	5.03	0.12	0.136	0.01
	2	59.809	0.304	5.058	5.067	3580	59.86	19.76	0.22	998.25	10131	5.065	0.14		
	3	59.934	0.304	5.057	5.066	3571	59.58	19.76	0.22	998.25	10129	5.064	0.14		
0.1347	1	59.512	0.135	2.224	2.228	1542	25.91	19.77	0.22	998.25	4455	2.227	0.14	0.142	0.045
	2	59.528	0.135	2.224	2.228	1538	25.84	19.76	0.22	998.25	4457	2.228	0.19		
	3	59.747	0.134	2.23	2.234	1551	25.96	19.77	0.22	998.25	4465	2.233	0.10		
6.028	1	59.845	6.028	100.205	100.381	71294	1191.32	19.78	0.249	998.248	200462	100.231	0.03	0.02	0.01
	2	59.675	6.029	99.945	100.12	71081	1191.14	19.77	0.249	998.248	199906	99.953	0.01		
	3	59.377	6.026	99.394	99.569	70687	1190.48	19.78	0.249	998.248	198841	99.421	0.03		

Zero point: R: +x~-x      C: 32x~-32x      B: -x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2016/12/5      Validity: 2017/12/4      Test site: Flowlab



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Web Paraguay

## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CG50080010	Model No.: CG-50	Extended uncertainty: ≤0.05%(k=2)
Device name: Coriolis mass flow meter	Transmitter No.: 1412034	Certificate No.: RN-2015121932	
Manufacturer: Zhejiang Sealand Technology Co., Ltd.	Flow range: (1.20~60.00)t/h	Housing sealing: Pass	Test result
Based on: JIG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: 0.10%
AT.: 19.60°C      RH.: 60%	Pulse equivalent: 500.00001/kg	Parameter: 3200086	Repeatability: 0.04%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 22.45°C	Medium pressure: 0.288MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
60.91	1	59.168	60.914	1001.15	1003.493	179582	3035.13	22.45	0.288	997.665	500371	1000.742	-0.04	-0.015	0.024
	2	59.245	60.901	1002.251	1004.599	179671	3032.67	22.46	0.288	997.663	501077	1002.154	-0.01		
	3	59.384	60.907	1004.704	1007.053	180191	3034.32	22.44	0.288	997.667	502387	1004.774	0.01		
30.32	1	59.38	30.326	500.205	501.369	89574	1508.5	22.4	0.203	997.678	250364	500.728	0.11	0.083	0.019
	2	59.802	30.319	503.648	504.82	90242	1509.02	22.39	0.202	997.679	252001	504.002	0.07		
	3	59.802	30.321	503.688	504.859	90255	1509.23	22.38	0.202	997.682	252029	504.058	0.07		
6.084	1	59.158	6.085	99.995	100.227	17736	299.81	22.37	0.254	997.684	50035	100.07	0.08	0.088	0.013
	2	59.285	6.085	100.205	100.438	17755	299.49	22.36	0.254	997.685	50146	100.292	0.09		
	3	59.097	6.083	99.865	100.096	17729	300	22.36	0.254	997.686	49983	99.966	0.10		
3.145	1	59.283	3.145	51.794	51.914	9061	152.84	22.36	0.239	997.686	25916	51.832	0.07	0.097	0.039
	2	59.332	3.145	51.834	51.955	9081	153.05	22.36	0.24	997.686	25954	51.908	0.14		
	3	59.612	3.145	52.075	52.195	9111	152.84	22.36	0.24	997.686	26057	52.114	0.08		
1.31	1	59.301	1.309	21.563	21.613	3622	61.08	22.36	0.233	997.687	10787	21.574	0.05	0.077	0.041
	2	59.049	1.308	21.463	21.512	3601	60.98	22.35	0.233	997.688	10737	21.474	0.05		
	3	59.597	1.313	21.733	21.783	3660	61.41	22.35	0.233	997.688	10880	21.76	0.13		
60.96	1	59.699	61.009	1011.711	1014.056	181527	3040.69	22.35	0.289	997.688	505782	1011.564	-0.02	0.017	0.028
	2	59.494	60.946	1007.206	1009.541	180869	3040.12	22.35	0.288	997.688	503802	1007.604	0.04		
	3	59.822	60.913	1012.212	1014.557	181801	3039.03	22.35	0.287	997.689	506241	1012.482	0.03		

Zero point: R: +x~-x      C: -40x~-41x      B: -11x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2016/11/19      Validity: 2017/11/18      Test site: Flowlab



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Web Paraguay

## CALIBRATION CERTIFICATE

Client: Zhejiang Sealand Technology Co., Ltd.	Sensor No.: CG80080005	Model No.: CG-80	Extended uncertainty: ≤0.05%(k=2)
Device name: Coriolis mass flow meter	Transmitter No.: 1412041-3	Certificate No.: RN-2015121932	
Manufacturer: Zhejiang Sealand Technology Co., Ltd.	Flow range: (3.00~180.00)t/h	Housing sealing: Pass	Test result
Based on: JIG 1038-2008 Coriolis mass flow meter	Accuracy grade: 0.2	Files with meter: Pass	Accuracy: -0.11%
AT.: 16.20°C      RH.: 60%	Pulse equivalent: 100.00001/kg	Parameter: 7709638	Repeatability: 0.05%
Test medium: Water      Pressure: 102.700kPa	Medium temp.: 21.05°C	Medium pressure: 0.209MPa	Test result: Pass

Flow rate t/h	S.N.	Data of the calibration line						Data of the tested meter					Calculated data		
		Time s	Flow rate t/h	Mass KG	Volume L	Pulse N	Frequency Hz	Temp. °C	Pressure MPa	Density kg/m <sup>3</sup>	Pulse N	Mass KG	Accuracy %	Average accuracy / %	Repeatability %
180.1	1	49.136	180.123	2458.479	2463.455	117275	2386.74	21.05	0.209	997.98	246099	2460.99	0.10	0.076	0.027
	2	49.495	180.123	2476.448	2481.461	118054	2385.17	21.05	0.21	997.98	247763	2477.63	0.05		
	3	49.417	180.006	2470.942	2475.95	117619	2380.13	21.06	0.209	997.977	247288	2472.88	0.08		
62.14	1	49.074	61.793	842.333	844.043	39933	813.74	21.07	0.198	997.975	84248	842.48	0.02	0.046	0.033
	2	48.95	62.384	848.24	849.961	40198	821.21	21.07	0.197	997.975	84856	848.56	0.04		
	3	49.824	62.24	861.404	863.151	40908	821.05	21.07	0.197	997.975	86211	862.11	0.08		
30.02	1	59.875	30.024	499.364	500.377	23725	396.24	21.07	0.198	997.974	49936	499.36	0.00	0.056	0.049
	2	59.934	30.017	499.734	500.748	23778	396.74	21.07	0.198	997.975	50017	500.17	0.09		
	3	59.589	30.02	496.911	497.92	23618	396.35	21.07	0.198	997.974	49732	497.32	0.08		
6.853	1	59.835	6.852	113.889	114.12	5438	90.88	21.07	0.247	997.976	11389	113.89	0.00	-0.017	0.017
	2	59.307	6.854	112.908	113.137	5392	90.92	21.06	0.247	997.976	11287	112.87	-0.03		
	3	59.729	6.853	113.699	113.93	5433	90.96	21.07	0.247	997.976	11368	113.68	-0.02		
3.218	1	59.974	3.217	53.586	53.695	2574	42.92	21.06	0.243	997.977	5351	53.51	-0.14	-0.111	0.039
	2	59.181	3.219	52.916	53.023	2537	42.87	21.06	0.243	997.977	5288	52.88	-0.07		
	3	59.244	3.219	52.976	53.083	2548	43.01	21.07	0.243	997.976	5291	52.91	-0.12		
180.7	1	49.823	180.763	2501.724	2506.795	119251	2393.47	21.06	0.211	997.977	250314	2503.14	0.06	0.03	0.03
	2	49.777	180.731	2498.971	2504.037	118871	2388.06	21.06	0.211	997.977	249985	2499.85	0.04		
	3	49.557	180.668	2487.059	2492.103	118588	2392.95	21.07	0.211	997.976	248702	2487.02	0.00		

Zero point: R: +x~-x      C: -112x~-113x      B: -+x

Tested by: Li Wang      Checked by: Xinxin Ye      Date: 2016/11/26      Validity: 2017/11/25      Test site: Flowlab



Web Argentina



Web Uruguay



Web Paraguay