

Calibration Certificate

The Falling Weight Deflectometer (FWD) KUAB 50 with serial number **FV123**, owned by **West Coast Road Masters OY, Finland**, manufactured by **KUAB Konsult & Utveckling AB in Sweden**, was in **February 2024** calibrated by KUAB's personnel.

After the calibration the FWD **FV123** measures with the same accuracy as a new KUAB 50 and meets all relevant standards, including but not limited to ASTM D4694 and the Swedish Method Description TRVMB 112.

The result of the calibration was recorded in the configuration file FVO.INI in the laptop operating the FWD. The result of the calibration is also shown below. Descriptions of the calibration methods and the calculations giving these numbers are available at KUAB, email all@kuab.se.

KUAB STATIC SEISMOMETER CALIBRATION OUTPUT FILE FV123

Date: 15.2.2024
Time: 13:15:12
A/D converter bit value: N/A mV/bit
Calibration factor for seismometer 0 = 0.486541 µm/mV
Calibration factor for seismometer 1 = 0.462266 µm/mV
Calibration factor for seismometer 2 = 0.461810 µm/mV
Calibration factor for seismometer 3 = 0.492542 µm/mV
Calibration factor for seismometer 4 = 0.466397 µm/mV
Calibration factor for seismometer 5 = 0.468841 µm/mV
Calibration factor for seismometer 6 = 0.444085 µm/mV
Calibration factor for seismometer 7 = 0.477430 µm/mV

	S0	S1	S2	S3	S4	S5	S6	S7	D0	D1	D2	D3	D4	D5	D6	D7
Voltage at 3.25	-2597	-2769	-2725	-2510	-2619	-2712	-2846	-2669								
Voltage at 3.50	-2087	-2237	-2189	-2008	-2087	-2180	-2285	-2158								
Position	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25								
Voltage	1506	1542	1589	1535	1657	1545	1629	1490								
Voltage at 3.25	-2598	-2772	-2728	-2508	-2623	-2711	-2852	-2665								
Voltage at 3.75	-1574	-1695	-1654	-1508	-1552	-1645	-1729	-1632	-767	-786	-767	-745	-726	-773	-772	-785
Voltage at 3.75	-1574	-1695	-1654	-1505	-1552	-1645	-1729	-1633	-767	-786	-767	-744	-726	-773	-773	-785
Voltage at 4.25	-546	-615	-571	-489	-482	-585	-611	-594	-266	-285	-265	-242	-226	-275	-273	-286
Voltage at 4.75	482	468	513	525	591	484	517	450	235	217	238	260	276	227	231	216
Voltage at 5.25	1506	1542	1586	1535	1656	1546	1628	1490	734	716	735	759	775	726	728	717
Voltage at 5.75	2526	2618	2660	2547	2719	2611	2745	2538	1231	1215	1233	1259	1272	1227	1227	1220
Voltage at 6.25	3542	3687	3726	3551	3773	3661	3853	3561	1726	1711	1728	1755	1765	1720	1722	1712
Voltage at 6.75	4546	4746	4780	4541	4820	4703	4939	4586	2216	2202	2216	2245	2254	2210	2207	2205
Voltage at 7.25	5536	5797	5819	5526	5856	5730	6008	5601	2698	2690	2698	2732	2739	2692	2685	2693

Calibration factor for seismometer 0 = 0.487374
Calibration factor for seismometer 1 = 0.463954
Calibration factor for seismometer 2 = 0.463587
Calibration factor for seismometer 3 = 0.494386
Calibration factor for seismometer 4 = 0.467759
Calibration factor for seismometer 5 = 0.469823
Calibration factor for seismometer 6 = 0.446862
Calibration factor for seismometer 7 = 0.480853

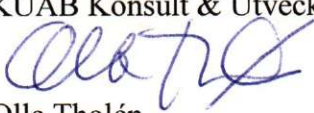


[loadmodel]
description=2 + 2 buffers
ForceThreshold=500
SensorThreshold=100
risetime=25
aload(1)=1209
aload(2)=3345
aload(3)=4083
aload(4)=5112
nominalload(1)=1200
nominalload(2)=3300
nominalload(3)=4000
nominalload(4)=5000
corfac(1)=.03
corfac(2)=.06
corfac(3)=.1
corfac(4)=.12
defaultheight(1)=.024
defaultheight(2)=.202
defaultheight(3)=.289
defaultheight(4)=.470

[loadplate1]
description=The small plate
radius=15
calfac=17496
sharpcalfac=1
caladd=133
square=2580

[pavtemp]
;Rayomatic 14 / Optris CT
available=True
voltagefactor=.0025
lowestrange=-30
offset=0
xcoefficient(0)=0
xcoefficient(1)=130
xcoefficient(2)=0
xcoefficient(3)=0
xcoefficient(4)=0

[airtemp]
calfac=0.998478155785319
caladd=-273.15
offset=0
lastdate=15.2.2024
lasttime=14:02:22

Rättvik 2024 04 23
KUAB Konsult & Utveckling AB

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