

KALIBRERINGSCERTIFIKAT FÖR BANDVAGN

08399

Bandvagn nr: 08399

Datum för kalibrering: 2020-12-21

Kalibrerad av: Ove Karlsson

Sign. _____

Vridmoment kraft

Kraftgivare 0-1 kN

Kraftkonstant: 1,06

Kraftgivare 0-50 kN

Kraftkonstant: 1,06

Maxkraft: 40,78

Djupmätare

1 meter= 1 m

H/V-givare

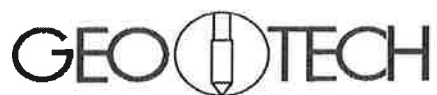
Ventilsida: 20 H/V = 20 H/V

Kogersida: 20 H/V = 20 H/V

Kompenserat vridmoment

Uppdragsnr: 20138

Datum: 2021-10-08



KALIBRERINGSCERTIFIKAT FÖR BANDVAGN

BV0610

Bandvagn nr: BV0610
Datum för kalibrering: 2021-07-05
Kalibrerad av: Christian Berg

Sign.

A handwritten signature in blue ink, appearing to read "Christian Berg", written over a horizontal line.

Vridmoment kraft

Kraftgivare 0-1 kN

Kraftgivare 0-50 kN

Kraftkonstant: 1,10
Maxkraft: 37,312 kN vid 0 Bar *Systemtryck normalt 210-220 Bar, med Ls-system 240 Bar*

Djupmätare

1 meter= 1 m

H/V-givare

Ventilsida: 20 H/V = 20 H/V
Kogersida: 20 H/V = 20 H/V

Kompenserat vridmoment

Uppdragsnr: 20138
Datum: 2021-10-08

Kalibreringsprotokoll för vinginstrument

Vinginstrument nr: 209

Kalibreringskonstant : 1,07

Kalibreringsdatum:	2020-12-21
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Ersätter kalibrering gjord datum: 2020-01-07

NÄSTA senaste kalibreringsdatum enligt SGF 2:93 2021-12-21

Förutsätter dock att instrumentet inte repareras eller hanteras ovarsamt under tiden fram till detta datum.

Konstant, C, för respektive vingstorlek; 110x50 = 2,0 ; 130x65 = 1,0 ; 172x80 = 0,5.

Avlästa värden

5 Nm	5,8 mm	0,86
10 Nm	10,0 mm	1,00
20 Nm	19,6 mm	1,02
30 Nm	28,9 mm	1,04
40 Nm	38,2 mm	1,05
50 Nm	47,8 mm	1,05
60 Nm	56,9 mm	1,05
70 Nm	66,0 mm	1,06
80 Nm	75,4 mm	1,06
90 Nm	84,1 mm	1,07
100 Nm	93,2 mm	1,07

Kalibreringen utförd enligt anvisningar och krav i SGF 2:93.

Kalibreringen gjord av Ove Karlsson

Namnteckning _____

Ort Askim Datum 2020-12-21

Uppdragsnr: 20138
Datum: 2021-10-08

CALIBRATION CERTIFICATE FOR CPT PROBE 4263 Bilaga 2:4

Probe No 4263
 Date of Calibration 2020-09-02
 Calibrated by Mikael Engdahl.....
 Run No 1404
 Test Class: ISO 1

Point Resistance Tip Area 10cm²

Maximum Load 50 MPa
 Range 50 MPa
 Scaling Factor **1359**
 Resolution 0,5614 kPa
 Area factor (a) 0,862

ERRORS

Max. Temperature effect when not loaded 15,71 kPa
 Temperature range 5 –40 deg. Celsius.

Local Friction Sleeve Area 150cm²

Maximum Load 0,5 MPa
 Range 0,5 MPa
 Scaling Factor **3691**
 Resolution 0,0103 kPa
 Area factor (b) 0

ERRORS

Max. Temperature effect when not loaded 1,26 kPa
 Temperature range 5 –40 deg. Celsius.

Pore Pressure

Maximum Load 2 MPa
 Range 2 MPa
 Scaling Factor **3552**
 Resolution 0,0215 kPa

ERRORS

Max. Temperature effect when not loaded 0,665 kPa
 Temperature range 5 –40 deg. Celsius.

Tilt Angle. Scaling Factor: 0,94

Range 0 - 40 Deg.

Backup memory
Temperature sensor
Conductivity probe

Uppdragsnr: 20138

Datum: 2021-10-08



Specialists in
 Geotechnical
 Field Equipment

CALIBRATION CERTIFICATE FOR CPT PROBE 4263 Bilaga 2:5

Probe No 4263
 Date of Calibration 2021-03-19
 Calibrated by Alexander Dahlin.....
 Run No 1635
 Test Class: ISO 1

Point Resistance Tip Area 10cm²

Maximum Load 50 MPa
 Range 50 MPa
 Scaling Factor **1359**
 Resolution 0,5614 kPa
 Area factor (a) 0,865

ERRORS

Max. Temperature effect when not loaded 8,416 kPa
 Temperature range 5 –40 deg. Celsius.

Local Friction Sleeve Area 150cm²

Maximum Load 0,5 MPa
 Range 0,5 MPa
 Scaling Factor **3698**
 Resolution 0,0103 kPa
 Area factor (b) 0

ERRORS

Max. Temperature effect when not loaded 1,587 kPa
 Temperature range 5 –40 deg. Celsius.

Pore Pressure

Maximum Load 2 MPa
 Range 2 MPa
 Scaling Factor **3565**
 Resolution 0,0214 kPa

ERRORS

Max. Temperature effect when not loaded 0,32 kPa
 Temperature range 5 –40 deg. Celsius.

Tilt Angle. Scaling Factor: 0,94

Range 0 - 40 Deg.

Backup memory
Temperature sensor
Conductivity probe

Uppdragsnr: 20138

Datum: 2021-10-08



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DECLARATION OF CONFORMITY & CALIBRATION SHEET

Type:	GT-40	Name:	Multipurpose Gamma Analyzer
Model:	GT-40	Calibration Date:	Jan 11, 2021
Serial number:	0056	Calibration Cycle:	2 Years
Year of manufacturing:	2017	Due Date:	Jan 11, 2023

Received condition:	Within tolerance <input checked="" type="checkbox"/>	Not within tolerance <input type="checkbox"/>	New product <input type="checkbox"/>
Action taken:	None taken <input checked="" type="checkbox"/>	Adjusted <input type="checkbox"/>	Repaired <input type="checkbox"/>
Completed condition:	Full calibration <input checked="" type="checkbox"/>	Limited use <input type="checkbox"/>	Custom <input type="checkbox"/>
Environmental conditions:	Local background: 120 nSv/h Temperature: 22 °C Humidity: N/A		
Remarks:			

Standards to which Conformity is declared:

CE Conformity	EU Directive 204/108/EC-EMC, IEC 1017-1, IEC 1017-2, IEC1000-4-2, IEC 60846:2002, EN 50082-2, EN 55011, EN 55022, EN 61000-3-2(-3), EN 61000-4-2(-11)
Other Directives and Standards	Applicable in the Czech Republic, Act No. 22/1997, Act No. 505/1990, Gov. Order 169/1997, Decree of the Czech Labour Safety Board No. 48/1982, Decree of Nuclear Safety Board No. 184/1997

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards, and was calibrated conform to the "GT-40 Sub-assemblies and System test procedure" PP_VY_10, Rev.3, using calibration PADs certified by Geological Survey of Sweden.

System Final Test					
Sensitivity Test Jig:	Th-232	N/A	Cs-137	N/A	BG 287 cps
Search Mode Test:	Audio: OK	Display: OK	Backlit: OK	USB: OK	GPS: OK

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Dose Calibration: Not calibrated! The unit is not a Dose meter!

Note: Displayed Dose rate, or Ambient dose equivalent rate H^* (10), is computed from measured spectrum to size up the Total Gamma-ray Activity of measured rock. Numbers are valid for not shielded detector only.

Assay Calibration:

Calibration was performed using reference PADs of Geological Survey of Sweden located at Borlange.

Methods:

1. **K_U_Th_SWE** – Infinite flat rock outcrop, minimum rock layer 30 cm, standard measuring time 300 s
2. **Hole_K_U_Th_SWE**– N/A

Assay Test: K_U_Th_SWE Method, 300 s

Pad	K (%)		U (ppm)		Th (ppm)		Cs-137 (kBq/m ²)		
	nom	meas	nom	meas	nom	meas	nom	meas	
	7,5	7,2	24.8	24,2	49.1	47,6	N/A	N/A	

Brno, Jan 11th, 2021



Quality Assurance: Ivan Kaspárec

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