

ECHOSENS	Rapport d'Intervention Client: Intervention #00013439 Ticket 00040426	
	July 26, 2022	Réalisé par: Thomas Baudet

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DETAILS DU RAPPORT D'INTERVENTION		
Numéro d'Intervention	Contact Client:	Contact Echosens:
00013439	rcarrasco@cencomex.cl	Agent: Thomas Baudet
Numéro de devis	Ricardo Carrasco	Account Referent:
		David Betancourt
		david.betancourt@echosens.com // +573192982811

INFORMATIONS PRODUITS					
Nom du Produit	Calibration bench Step 4 (S/N: 110-430)	Numéro de Série	110-430	Fabricant / Distributeur	ECHOSENS
Ville	SANTIAGO	Pays	CL	Nom du Client	CENCOMEX
Type d'Intervention	Calibration			Numéro d'Intervention	00013439
Lieu d'Intervention	Echosens				
Date d'intervention	7/26/22 au 7/26/22			Temps de travail (h)	

DESCRIPTION DU PROBLEME		
Raison du Ticket	Calibration request	Informations complémentaires
Sujet du Ticket	110-430 banc de calibration à calibrer Chili Cencomex	110-430 banc de calibration à calibrer Chili Cencomex
Description du Ticket	110-430 banc de calibration à calibrer Chili Cencomex	

ACTIONS MENEES

EDU 11 07 2022 : organisation enlèvement via DHL 9782374184 pour ce jour au Chili

EDU 25 07 2022 : banc de calibration reçu ce jour avec cordon alim et adaptateur.

TBA 26.07.2022: diagnostic:

- 1G probe socket missing
- button battery connector broken (see photo)

actions made:

- probe socket replacement (M202024)
- mother board replacement (M200612):

old SN°: no serial number

new SN°: 183904

- battery replacement (M200721)

- software upgrade in 4.2.0

- verification of calibration bench succeeded

PIECE DETACHEES

Date	Pièces remplacées / à remplacer	Ancien Numéro de Série	Nouveau Numéro de Série	Visa

INTERVENTION RESULTS

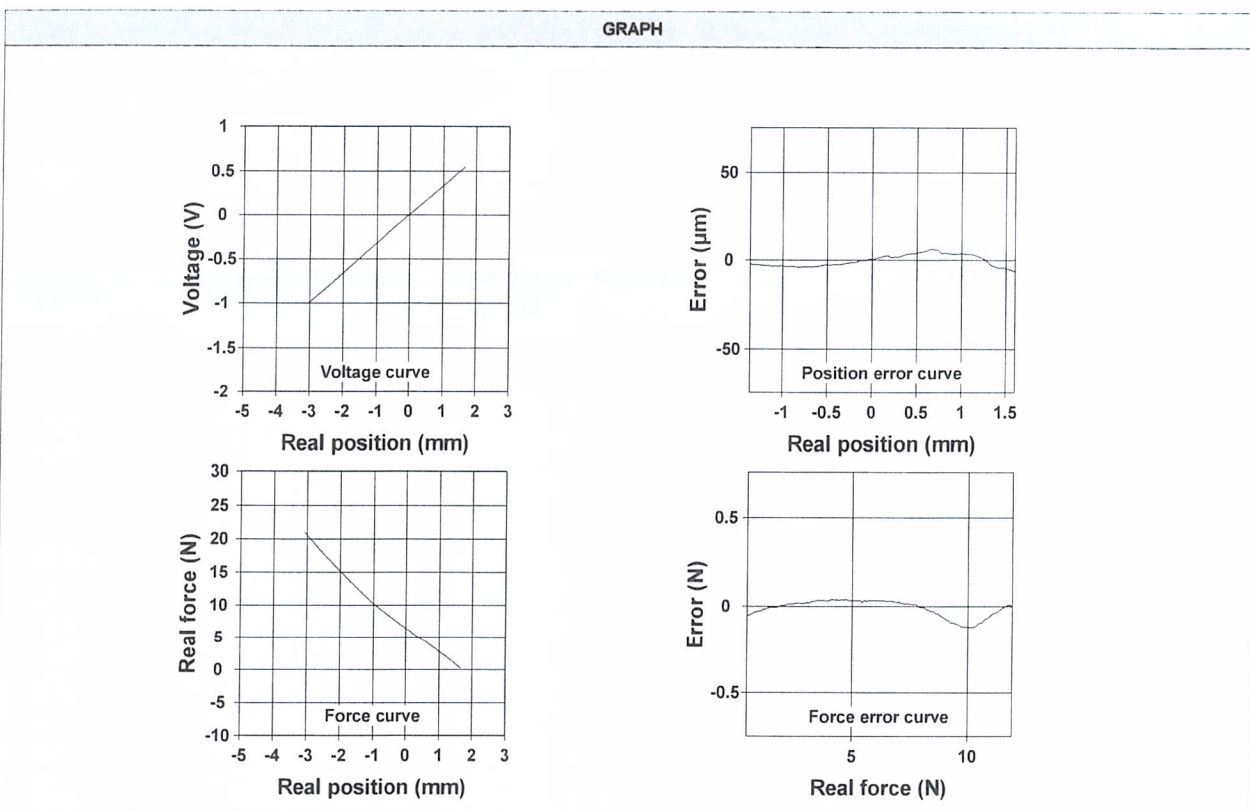
Intervention terminée	
Si non terminée, la raison	
Signature du Technicien :	Signature du Client:


 5 rue Jean Lemoine
 94000 CRETEIL - FRANCE
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 F. +33 1 42 07 46 07
 TVA FR 63 438 209 157
 RCS PARIS 438 209 157

PROBE CALIBRATION REPORT

REFERENCE	OPERATOR	CALIBRATION DATE
PROBE SERIAL NUMBER S0090273 SOFTWARE VERSION 3.3.6 BENCH SERIAL NUMBER 110-430	TBA TEST	26 July 2022 - 08:03

PROBE DATA
PROBE MODEL 9 DATE OF MANUFACTURING May 13 DATE OF THE LAST CALIBRATION January 10



CALIBRATION STATUS
CALIBRATION SUCCEEDED

YOUR LOCAL DEALER

OPERATOR'S SIGNATURE
STATUS: ☒ PASSED ☐ FAILED


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Information

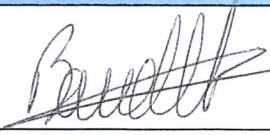
Report n°	239-2672022	
Date	26/07/2022	
MET #	239	
Bench STEP	STEP 4	<= Select Bench step # to set V9 data
Bench S/N	110-430	
Country	CHILI	
Customer	CENCOMEX	

Instruments used

Instrument	N° MET	Model	S/N	Calibration due date
Force sensor	320	FN3030-A1	W1724E	14/08/2022
Translation sensor	334	ID-S1012XB	18106950	27/08/2022
Digital multimeter	384	115	44770862WS	15/02/2023

Tests results

Tests	Voltage		Force sensor		Translation	
Results	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED

	NAME & CAPACITY	DATE	VISA
OPERATOR	BAUDET	26/07/2022	
RESULTS VERIFIED BY	Thierry Pechoux	26/07/2022	
RESULTS APPROVED BY	DAVOULOVRY Bassawayamoidou	26/07/2022	

A. Voltage verification

A.1 Output voltage verification

Max error authorized (%): 10%

Max error:

2,19%

PASSED

Parameter	V theoretical (V)	V measured (V)	Error (%)
V5	5,000	4,923	1,54%
V9	7,320	7,160	2,19%

A.2 Voltage sensor verification

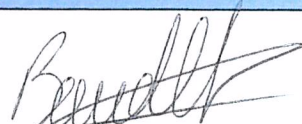
Max error authorized (mV): 50

Max error:

4

PASSED

Rotary position	Voltage by multimeter (V)	PosN/PosP Voltage of Bench Tool interface (V)	Error (mV)
1	0,000	-0,004	4
2	0,780	0,781	1
3	1,556	1,556	0

	NAME & CAPACITY	DATE	VISA
OPERATOR	BAUDET	26/07/2022	

B. Force sensor verification

Correlation coefficient MIN: 0,970

Correlation coefficient

1,000

PASSED

Slope MIN: 0,940

Slope MAX: 1,060

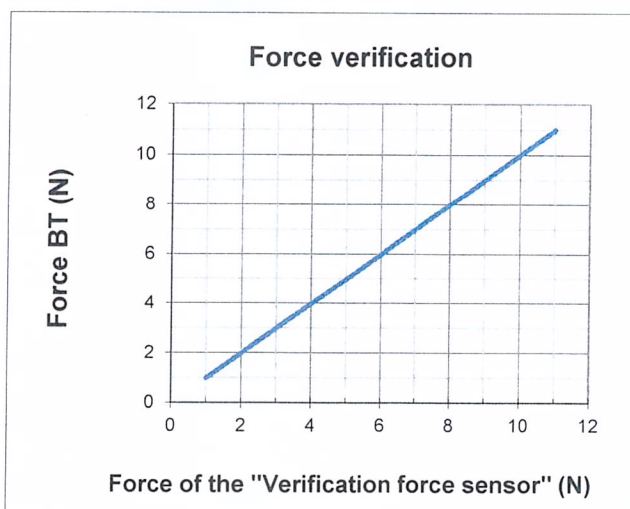
Slope

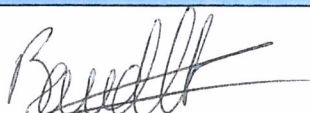
0,999

PASSED

Verification Force sensor characteristics		
Gain (N/V)	Force range (N)	Voltage of the force range (V)
25,176	50,000	1,986

Target Force step (N)	"Verification Force Sensor" voltage (V)	BT Force (N)	"Verification Force Sensor" force (N)	BT Force sensor voltage (V)
0,0 ± 0,02	2,477	0,000	0,000	-0,067
1,0 ± 0,02	2,438	1,000	0,982	-0,107
3,0 ± 0,02	2,358	3,000	2,996	-0,187
5,0 ± 0,02	2,279	5,000	4,985	-0,267
7,0 ± 0,02	2,199	7,000	6,999	-0,347
9,0 ± 0,02	2,120	9,000	8,988	-0,427
11,0 ± 0,02	2,040	11,000	11,002	-0,508



	NAME & CAPACITY	DATE	VISA
OPERATOR	BAUDET	26/07/2022	

C. Distance verification

Correlation coefficient MIN: 0,970

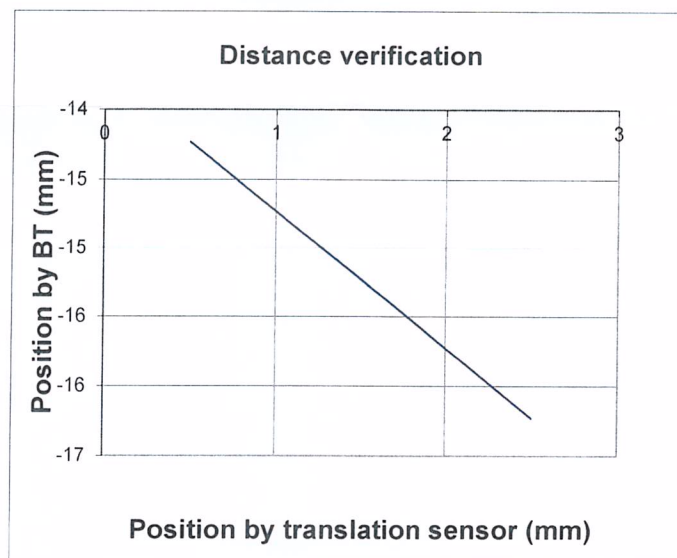
Correlation coefficient 1,000 PASSED

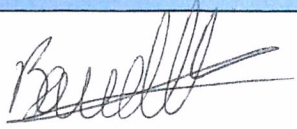
Slope MIN: 0,970

Slope 1,000 PASSED

Slope MAX: 1,030

Position	Position by translation sensor (mm)	Position by Bench Tool interface (mm)
1	0,500	-14,230
2	1,000	-14,730
3	1,500	-15,230
4	2,000	-15,730
5	2,500	-16,230



	NAME & CAPACITY	DATE	VISA
OPERATOR	BAUDET	26/07/2022	

Verification report Calibration Bench

Technical Note Applicable	
TN 24- Calibration bench probe holder joint replacement (If applicable)	☐ Replaced ☒ No replacement needed
TN 70-Large batterie	☒ Upgraded ☐ Was upgraded

Software		
§5.1 E110F020.5 - Update Hardware		☒ Upgraded ☐ Was upgraded ☐ NA
§5.2 E110C001- Update software	Software version = 4.2.0	☒ Replaced & Upgraded ☐ Was upgraded ☐ NA

Frame	
State of device	☒ OK ☐ NOT OK
§5.8 from E110C001 - Lemo Connector	☒ OK ☐ NOT OK
§6 Setting the recipient time zone	☒ OK ☐ NOT OK
§7 Upgrade of socket for 2G and 3G probe	☒ OK ☐ NOT OK

Additional information (if necessary): pas de socket 1G / connecteur pile bouton carte-mère cassé (remplacement carte-mère effectué)

	NAME & CAPACITY	DATE	VISA
OPERATOR	BAUDET	26/07/2022	