

Formularul ofertei

[Ofertantul va completa acest formular în conformitate cu instrucțiunile de mai jos. Nu se vor permite modificări în formatul formularului, precum și nu se vor accepta înlocuiri în textul acestuia.]

Data depunerii ofertei: **22.07.2026**

Procedura de achiziție Nr.: **21652689**

Anunț de participare Nr.: **ocds-b3wdp1-MD-1784023887209 din 14 Iulie 2026**

Către: **TERMOELECTRICA**

[numele deplin al autorității contractante]

DALU MOL SRL declară că:

[denumirea ofertantului]

a) Au fost examinate și nu există rezervări față de documentele de atribuire, inclusiv modificările nr.

[introduceți numărul și data fiecărei modificări, dacă au avut loc]

b) **DALU MOL SRL** se angajează să

[denumirea ofertantului]

presteze, în conformitate cu documentele de atribuire și condițiile stipulate în specificațiile tehnice și preț, următoarele servicii **Achiziționarea aparatului ultrasonic de masurare a grosimii metalului..**

[introduceți o descriere succintă a serviciilor]

c) Suma totală a ofertei fără TVA constituie:

114400 MDL

[introduceți prețul pe loturi (unde e cazul) și totalul ofertei în cuvinte și cifre, indicând toate sumele și valutele respective]

d) Suma totală a ofertei cu TVA constituie:

137280 MDL

[introduceți prețul pe loturi (unde e cazul) și totalul ofertei în cuvinte și cifre, indicând toate sumele și valutele respective]

e) Prezenta ofertă va rămâne valabilă pentru perioada de timp, începând cu data-limită pentru depunerea ofertei, va rămâne obligatorie și va putea fi acceptată în orice moment până la expirarea acestei perioade;

f) După caz, în cazul acceptării prezentei oferte, **DALU MOL SRL**

[denumirea ofertantului]

se angajează să obțină o Garanție de bună execuție, pentru executarea corespunzătoare a contractului de achiziție publică.

g) Nu suntem în nici un conflict de interese, în conformitate cu Legea nr. 74 privind achizițiile în sectoarele energiei, apei, transporturilor și serviciilor poștale.

h) Compania semnatară, afiliații sau sucursalele sale, inclusiv fiecare partener sau subcontractor ce fac parte din contract, nu au fost declarate neeligibile în baza prevederilor legislației în vigoare sau a regulamentelor cu incidență în domeniul achizițiilor publice.

Semnat: Dumitru Boaghe În calitate de: Administrator

Ofertantul: DALU MOL SRL Adresa: dalumoldova@gmail.com

Data: **22.07.2026**

Digitally signed by Boaghe Dumitru
Date: 2026.07.22 12:02:51 EEST
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Location: Moldova

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Anexa nr. 7
la Documentația standard nr.21652689
din 14 Iulie 2026

CERERE DE PARTICIPARE

Către: **TERMoelectrica**

Stimați domni,

Ca urmare a anunțului/invitației de participare/de preselecție apărut în Buletinul achizițiilor publice și/sau Jurnalul Oficial al Uniunii Europene, nr. **ocds-b3wdp1-MD-1784023887209** din **14 Iulie 2026**, privind aplicarea procedurii pentru atribuirea contractului pentru **Achiziționarea aparatului ultrasonic de masurare a grosimii metalului**, noi **DALU MOL SRL**, am luat cunoștință de condițiile și de cerințele expuse în documentația de atribuire și exprimăm prin prezenta interesul de a participa, în calitate de ofertant/candidat, neavând obiecții la documentația de atribuire.

Data completării **22.07.2026**

Cu stimă,

Dumitru Boaghe

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Date despre operatorul economic

1. Denumirea Firmei **DALU MOL SRL**
1. Adresa Firmei **mun. Chișinău, bl. Moscova 21 of. 405**
2. Oficiul de înregistrare **mun. Chișinău, str. Academician Sergiu Radautanu 9 ap. 54**
3. Codul fiscal / IDNO **1013600007534**
4. Telefon de contact **078705222**
5. E-mail: **dalumoldova@gmail.com**
6. Tipul Firmei Privată
privat, public, etc.
7. Fondatorul Firmei și ultimul **Patron si Fondator Dumitru Boaghe**
8. Experiența **10 ani**
9. Denumirea Băncii la care operatorul economic are deschis cont bancar și pe care cont vor fi achitate plățile:
 - denumirea băncii completă BC ProCredit Bank S.A.
 - c/b MD22PR002224205409001498
 - cod IBAN MD22PR002224205409001498
 - cod TVA 0608458
10. Persoana împuternicită de a semna contractul, inclusiv datele procurii valabile (dacă este cazul) cu anexarea copiei.
11. Modalitatea de semnare a contractului (*se va menține sau bifa opțiunea agreată*):
☒ electronic
☐ olograf

Data 22.07.2026

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Anexa nr. 8
la Documentația standard nr.21652689
din 14 Iulie 2026

DECLARAȚIE
privind valabilitatea ofertei

Către **TERMoelectrica**

Stimați domni,

Ne angajăm să menținem oferta valabilă, privind achiziționarea **Achiziționarea aparatului ultrasonic de masurare a grosimii metalului**, prin procedura de achiziție nr. **ocds-b3wdp1-MD-1784023887209** din data de **14 Iulie 2026** pentru o durată de **60 zile**, respectiv până la data de **27.09.2026** și ea va rămâne obligatorie pentru noi și poate fi acceptată oricând înainte de expirarea perioadei de valabilitate.

Data completării: **22.07.2026**

Cu stimă,

Dumitru Boaghe

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AGENȚIA SERVICII PUBLICE

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS

din Registrul de stat al persoanelor juridice

Nr. 545851 data 21.02.2024

Denumirea completă: **Societatea cu Răspundere Limitată "DALU MOL"**

Denumirea prescurtată: **"DALU MOL" S.R.L.**

Forma juridică de organizare: **Societate cu răspundere limitată,**

Numărul de identificare de stat și codul fiscal (IDNO): **1013600007534**

Data înregistrării de stat: **05.03.2013**

Sediul: **MD-2045, str. Academician Sergiu Rădăuțanu, 9, ap. 54, mun. Chișinău, Republica Moldova.**

Obiectul principal de activitate:

1. Comerțul cu ridicata al altor mașini și echipamente utilizate în industrie, comerț și transporturi

2. Alte tipuri de comerț cu ridicata

3. Activitatea de turism

4. Alte forme de învățământ pentru adulți și alt învățământ, neinclus în alte categorii

5. Transporturi rutiere de mărfuri

6. Servicii de expediere și transport

7. Întreținerea și repararea autovehiculelor

8. Activități ale agențiilor turistice

9. Comerț cu amănuntul de piese și accesorii pentru autovehicule

10. Comerț cu autoturisme și autovehicule ușoare (sub 3,5 tone)

11. Comerț cu alte autovehicule

12. Activități de închiriere și leasing de autoturisme și autovehicule rutiere ușoare

13. Activități de consultanță pentru afaceri și management

14. Activități de editare a altor produse software

15. Activități de realizare a soft-ului la comandă (software orientat client)

16. Comerț cu amănuntul al calculatoarelor, unităților periferice și software-lui în magazine specializate

17. Intermedieri în comerțul cu produse diverse

Digitally signed by Boaghe Dumitru

Date: 2026.07.22 12:03:38 EEST

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Capitalul social: **5400 lei**

Administrator: **BOAGHE DUMITRU, IDNP 0992001019861,**
numit în funcție pe termen nelimitat.

Asociat:

1. BOAGHE DUMITRU, IDNP 0992001019861, cota 5400 lei, ce constituie 100%

Beneficiar efectiv:

1.1. BOAGHE DUMITRU, IDNP 0992001019861

Prezentul extras este eliberat în temeiul art.34 al Legii nr.220-XVI din 19 octombrie 2007 privind înregistrarea de stat a persoanelor juridice și a întreprinzătorilor individuali și confirmă datele din Registrul de stat la data de: **21.02.2024.**

**Registrator în documentul
înregistrării de stat**



Roșca Ion



EB 0491335

B.C. "ProCredit Bank" S.A., bd. Ștefan cel Mare și Sfânt, 65, of. 901, Chișinău, MD-2001, Republica Moldova

Către: DALU MOL SRL

№ 07391

20 August 2025

Digitally signed by Boaghe Dumitru

Date: 2026.07.22 12:03:46 EEST

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CERTIFICAT

Prin prezentul, B.C. ProCredit Bank S.A. confirmă precum că DALU MOL SRL (c/f 1013600007534), are deschise următoarele conturi bancare:

Cod IBAN	Tipul contului	Denumirea valutei
MD22PR002224205409001498	Cont curent	MDL
MD03PR002224205409001840	Cont curent	USD
MD60PR002224205409001978	Cont curent	EUR

Persoana Responsabilă

Ag.Nr.8 a Suc.Nr.2 Chisinau(digital)

B.C. ProCredit Bank S.A.

Digitally signed by Paraschiv Natalia

Date: 2025.08.20 13:21:49 EEST

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Location: Moldova

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Executor: COLISNICENCO EVDOCHIA

Tel.080000010

B.C. "ProCredit Bank" S.A
Forma juridică de organizare Societate pe acțiuni
Numărul înregistrării de stat 1007600059183
Sediul bd. Ștefan cel Mare și Sfânt 65, of. 901, Chișinău, MD-2001
Republica Moldova

Președinte al Comitetului de Conducere al Băncii
Irina Coroi-Jovmir
Capitalul social 406 550 000 lei
Telefon 0800 000 10
MDA.office@procredit-group.com
www.procreditbank.md

* Atenție! Documentul conține Date cu caracter personal, prelucrate în cadrul sistemului de evidență al operatorului de date cu caracter personal. Prelucrarea ulterioară a acestor date poate fi efectuată numai în condițiile prevăzute de Legea nr.133 din 08.07.2011 privind protecția datelor cu caracter personal.



Anexa nr. 3
la Documentația standard nr.21652689
din 14 Iulie 2026

DECLARAȚIE
privind eligibilitatea

Către **TERMoelectrica**

Subsemnatul, **Dumitru Boaghe** administrator **DALU MOL SRL** declar pe propria răspundere că materialele și informațiile furnizate beneficiarului sunt corecte și înțeleg că beneficiarul are dreptul de a solicita, în scopul verificării și al confirmării informației și a documentelor care însoțesc oferta, orice informații suplimentare privind eligibilitatea noastră, precum și experiența, competența și resursele de care dispunem.

Prezenta declarație este valabilă până la data de 27.09.2026.

Data completării: **22.07.2026**

Cu stimă,

Dumitru Boaghe

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Dakota NDT

an Elcometer company

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CMX2-DL & CMX3-DL Thickness Gauge

HIGHLIGHTS:

- ▶ Powered by a 100MHz DSP platform using FPGA technology.
- ▶ Two Channels—Dual pulsers and receivers.
- ▶ Up to 250Hz pulse repetition rate.
- ▶ Screen refresh: B&W 25Hz, Color 60Hz. Switchable A-Scan portrait & landscape views (color only).
- ▶ Adjustable gain: 110dB range.
- ▶ Automatic gain control (AGC).
- ▶ Linear time dependent gain (TDG) with adjustable slope.
- ▶ Probes: Single, Dual, Delay line, Pencil.
- ▶ Memory: 4gb internal.
- ▶ USB-C connectivity

DAKOTA CMX2-DL & CMX3-DL THICKNESS GAUGE

Top of the range and easy to use, the Dakota CMX Corrosion Thickness Gauges provide inspectors with all the features necessary to measure the material and coating thickness at the same time.

Industries: Aerospace, Automotive, Energy, Infrastructure, Mining, Oil & Gas, Pipelines, Railway

SPECIFICATIONS

PHYSICAL

Weight: 13.5 ounces (with batteries).

Size:

Width (2.5 in / 63.5 mm)

Height (6.5 in / 165 mm)

Depth (1.24 in / 31.5 mm)

Operating Temperature:

14 to 140°F (-10 to 60°C).

Case: Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Keypad: Membrane switch pad with twelve tactile-feedback keys.

Data Output: USB-C port. Windows PC interface software.

Display (Two Options):

CMX2-DL: 1/8in VGA grayscale display (240 x 160 pixels). Viewable area 2.4 x 1.8in (62 x 45.7mm). EL backlit (on/off/auto). 25Hz screen refresh rate.

CMX3-DL: 1/4 VGA AMOLED color display (320 x 240 pixels). Viewable area 1.7 x 2.27in (43.2 x 57.6mm). 60Hz screen refresh rate.

TRANSDUCER

Transducer Types:

Dual/Single Element (1 to 20MHz). Contact, matching layer, delay line, and pencil configurations.

Locking quick disconnect "00" LEMO connectors.

Standard 4 foot cable.

Custom transducers & cables lengths available for special applications.

POWER SOURCE

Batteries: Three AA cells

Alkaline - Grayscale 35 hours. Color 12 hours.

Nicad - Grayscale 10 hours. Color 5 hours.

NI-MH - Grayscale 35 hours. Color 12 hours.

Power saving DIM (color), auto off 5 minutes. Battery status icon.

Line power: USB-C connected to PC or power outlet

ULTRASONIC SPECIFICATIONS

Measurement Modes:

Coating Off: Pulse-Echo (P-E)

Coating On: Pulse-Echo Coating (PECT)

Temp Comp: Pulse-Echo Temperature Compensation (PETP)

Thru-Paint: Echo-Echo (E-E)

Thru-Paint Verify: Echo-Echo Verify (E-EV)

Coating Only: Coating (CT)

Pulser: Dual square wave pulsers.

Receiver: Dual receivers - manual or AGC gain control with 110dB range (limited). Adjustable damping (50-1500 ohms).

Timing: Precision TCXO timing with single shot 100MHz 8 bit ultra low power digitizer.

DISPLAY

Large Digits - Standard thickness view. Digit Height: 0.700 inches (17.78mm). Color 0.565 in (14.35mm).

A-Scan - Rectified +/- (flaw view), RF (full waveform view). Portrait & landscape views (CMX3-DL only).

Pulse Repetition Frequency - 250Hz

A-Scan Refresh Rate - B&W 25Hz, color 60Hz.

B-Scan - Time based cross section view. Display speed variable (10 to 200 readings per second).

Scan Bar Thickness - Speed 33Hz. Viewable in B-Scan and Large Digit views.

Repeatability Bar Graph - Bar graph indicates stability of reading.

Feature Status Bar - Indicates features currently active.

MEMORY

Log Formats: Grid (Alpha Numeric), or Sequential (Auto Identifier).

Capacity: 4Gb internal memory.

Screen Capture: Bitmap graphic capture for quick documentation (.tif).

OBSTRUCT to indicate inaccessible locations.

REPLACEMENT

CMX2-DL replaces CMXDL+ & CG100ABDL

CMX3-DL replaces CMXDL+ Color & CG100ABDL+

MEASURING

Pulse-Echo Mode (P-E): (Pit & Flaw Detection) measures from 0.025 to 100ft. (0.63 to 30.48M).

Pulse-Echo Coating Mode (PECT): (Material, Coating, Pit & Flaw Detection) Material: 0.025 to 100ft. (0.63 to 30.48M). Coating: 0.001 to 0.100in (0.01 to 2.54mm).

Pulse-Echo Temp Comp Mode (PETP): (Pit & Flaw Detection) Auto temperature compensation - measures from 0.025 to 100ft. (0.63 to 30.48M)

Echo-Echo Mode (E-E): (Thru Paint & Coatings) measures from 0.100 to 6.0in (2.54 to 152.4mm). Range will vary +/- depending on the coating.

Echo-Echo Verify Mode (E-EV): (Thru Paint & Coatings) measures from 0.100 to 1.0in (2.54 to 102mm). Range will vary +/- depending on the coating.

Coating Only Mode (CT): (Coating Thickness) measures from 0.0005 to 0.100in (0.0127 to 2.54mm). Range will vary +/- depending on the coating.

Resolution: +/- 0.001 in (0.01mm). +/- 0.0001 in (0.001mm)

Velocity Range: 0.0122 to 0.7300 in/ μ s (309.88 to 18542 m/sec)

Single and Two point calibration option for material & coating, or selection of basic material types.

Units: English & Metric

CONNECTIONS

Output: Direct USB-C 1.1 PC connectivity.

Transducer Connectors: Two LEMO 00 connectors.

CERTIFICATION

Factory calibration traceable to NIST & MIL-STD-45662A.

WARRANTY

2 year limited.



MADE IN THE USA

Dakota NDT
an Elcometer company



MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*

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November 28, 2018

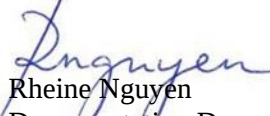
Dakota Ultrasonics
1500 Green Hills Road #107
Scotts Valley, CA 95066

Dear Mr. William Holt,

Enclosed is the EMC test report for compliance testing of the Dakota Ultrasonics, CMX USB family, tested to the requirements of EN 61326-1: 2013.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.



Rheine Nguyen
Documentation Department

Reference: (\Dakota Ultrasonics\EMCS101405-EURO)

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Electromagnetic Compatibility Test Report

for the

**Dakota Ultrasonics
CMX USB family**

Tested under

EN 61326-1: 2013

**MET Report: EMCS101405-EURO
November 28, 2018**

**Prepared for:
Dakota Ultrasonics
1500 Green Hills Road #107
Scotts Valley, CA 95066**



**Prepared by:
MET Laboratories, Inc.
3162 Belick Street
Santa Clara, CA 95054**



Electromagnetic Compatibility Test Report

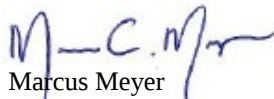
For the

Dakota Ultrasonics
CMX USB family

Tested under

EN 61326-1: 2013

MET Report: EMCS101405-EURO



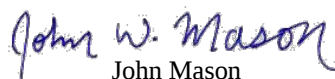
Marcus Meyer

Project Engineer, Electromagnetic Compatibility Lab



Rheine Nguyen
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the applicable limits. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements per Test Summary (Section 1.0).



John W. Mason

John Mason
Director, Electromagnetic Compatibility Lab



Dakota Ultrasonics
CMX USB family

Report Status
Electromagnetic Compatibility
Test Report

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	November 28, 2018	Initial Issue.



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List of Terms and Abbreviations

AC	Alternating Current	FOKI	Frequency of Key Interest
μF	microfarad	GRP	Ground Reference Plane
μH	microhenry	H	Magnetic Field
μs	microseconds	HCP	Horizontal Coupling Plane
ACF	Antenna Correction Factor	Hz	Hertz
AV	Average	IEC	International Electrotechnical Commission
Cal	Calibration	kHz	kilohertz
CE	Conducted Emissions	kPa	kilopascal
CI	Conducted Immunity	kV	kilovolt
CISPR	Comite International Special des Perturbations Radioelectriques (International Special Committee on Radio Interference)	LISN	Line Impedance Stabilization Network
d	Measurement Distance	MHz	Megahertz
dB	Decibels	MI	Magnetic Immunity
dBμA	Decibels above one microamp	PRF	Pulse Repetition Frequency
dBμA/m	Decibels above one microamp per meter	QP	Quasi Peak
dBμV	Decibels above one microvolt	RE	Radiated Emissions
dBμV/m	Decibels above one microvolt per meter	RF	Radio Frequency
DC	Direct Current	RI	Radiated Immunity
E	Electric Field	RMS	Root-Mean-Square
EFT/B	Electrical Fast Transient/Burst	V/m	Volts per meter
ESD	Electrostatic Discharge	VCP	Vertical Coupling Plane
EUT	Equipment Under Test	VDI	Voltage Dips Interruptions
f	Frequency	VF	Voltage Fluctuations



1.0 Testing Summary

The following tests specified by EN 61326-1 were performed with the following results:

Test Method	Test Description	Compliance
EN 55011: 2009 +A1: 2010	Conducted Emissions - Voltage - Class A	NA
EN 55011: 2009 +A1: 2010	Radiated Emissions - Class A	Compliant
EN 61000-3-2: 2006 +A2:2009	Harmonic Current Emissions	NA
EN 61000-3-3: 2008	Voltage Fluctuations/Flicker	NA
EN 61000-4-2: 2009	Electrostatic Discharge Immunity	Compliant
EN 61000-4-3: 2006 +A1:2008 +A2:2010	Radiated Electromagnetic Field Immunity	Compliant
EN 61000-4-4: 2012	Electrical Fast Transient/Burst Immunity	NA
EN 61000-4-5: 2006	Surge Immunity	NA
EN 61000-4-6: 2009	Conducted Radio-Frequency Immunity	NA
EN 61000-4-8: 2010	Magnetic Immunity	NA
EN 61000-4-11: 2004	Voltage Dips, Interruptions and Variations	NA

Table 1: Executive Summary of EN 61326-1 Compliance Testing



2.0 Equipment Configuration

2.1. Overview

MET Laboratories, Inc. was contracted by Dakota Ultrasonics to perform testing on the CMX USB family, under Dakota Ultrasonics quote number 1DAK2910.

This document describes the test setups, test methods, required test equipment, and the test limit used to perform compliance testing of the CMX USB family with the requirements of EN 61326-1: 2013, Electrical Equipment for Measurement, Control and Laboratory Use. .

The results obtained relate only to the item(s) tested.

Model(s) Tested:	CMX USB family
Model(s) Covered:	CMX USB family
Primary Power as Tested:	4.5 VDC
Equipment Emissions Class:	A
Evaluated by:	Marcus Meyer
Report Date:	November 28, 2018

2.1.1. Test Site

All testing was performed at MET Laboratories, Inc., 3162 Belick St., Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

MET Laboratories is a ISO/IEC 17025 accredited site by A2LA, California #0591.02.

2.1.2. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty (dB)	K	Confidence Level
Radiated Emissions, (30 MHz – 1 GHz)	±3.24	2	95%

Table 2: Uncertainty Calculations Summary



2.2. Detailed EUT Description and Test Setup

2.2.1. Description of Test Sample

The CMX USB family, Equipment Under Test (EUT), consists of multiple versions of the same circuit board with various features enabled or disabled. CMX DL PLUS is the fully loaded version which has waveform display and data logging. CMX DL does not have the waveform display. CMX does not have waveform display or data logging.

All these gauges are used to measure thickness by transit time of ultrasonic wave through the material to be tested. Thickness of piping, tanks, and bottles can be measured in various materials including steel, aluminum, glass, and some plastics.

2.2.2. Photograph(s) of Test Sample



Photograph 1. CMX USB family

2.2.3. Block Diagram

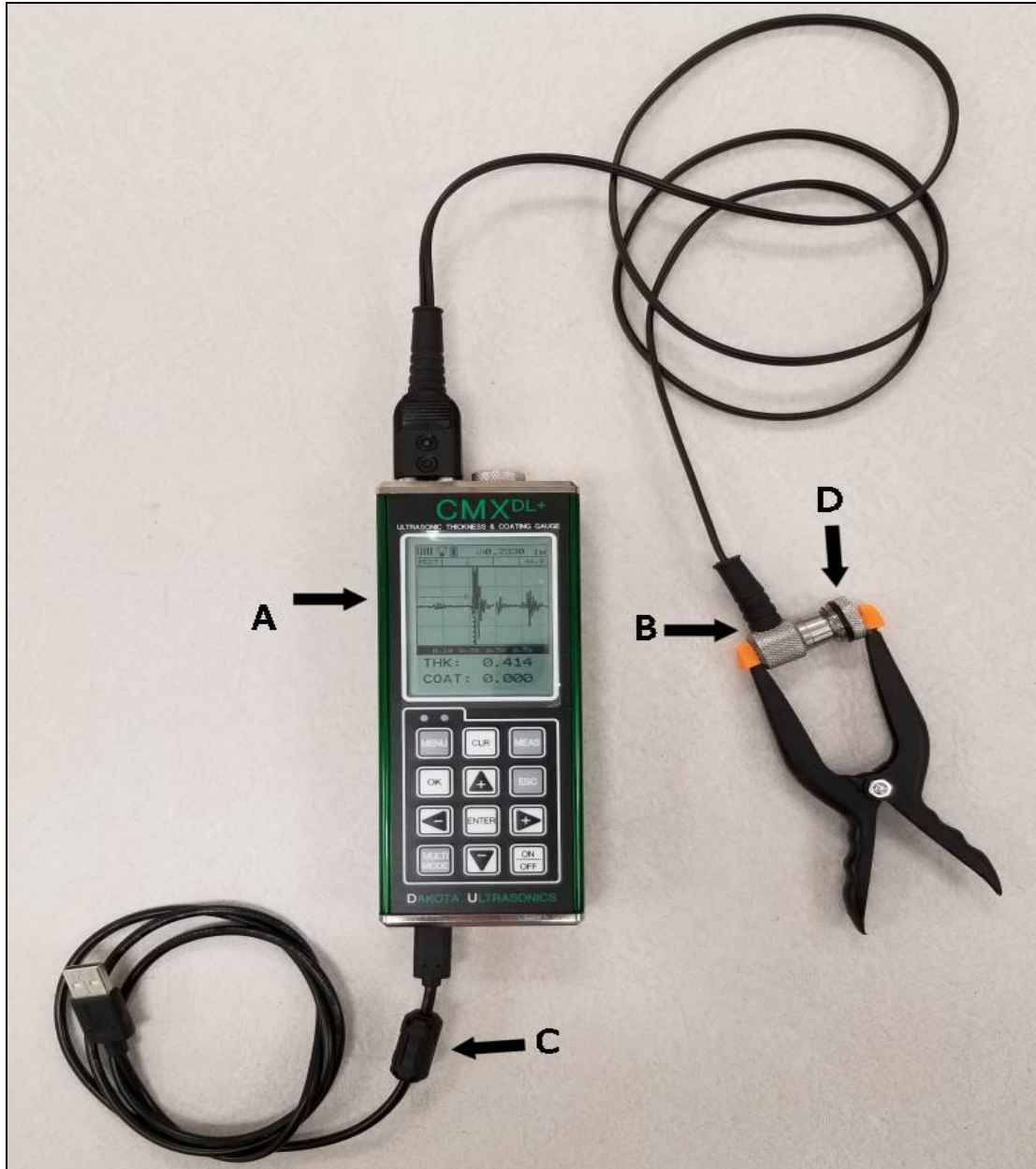


Figure 1. Block Diagram of Test Configuration



2.2.4. Equipment Configuration

The EUT was setup as outlined in Figure 1. All equipment incorporated as part of the EUT is included in the following list.

Ref. ID	Slot #	Name / Description	Model Number	Part Number	Serial Number	Rev. #
A	--	CMX thickness gauge	CMX DL +	--	9735	pcb C
A	--	CMX thickness gauge	CMX DL +	--	9736	pcb C

Table 3. Equipment Configuration

2.2.5. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name / Description	Manufacturer	Model Number	*Customer Supplied Calibration Data
B	Transducer	Dakota Ultrasonics	T-102-2900	NA
B	Transducer	Dakota Ultrasonics	T-102-2900	NA
D	Zero Block	Dakota Ultrasonics	NA	NA
D	Zero Block	Dakota Ultrasonics	NA	NA

Table 4. Support Equipment

* All 'customer supplied' support equipment will include the equipments calibration data. This column will be marked as either not applicable, not available, or will contain the calibration date supplied by the customer.

2.2.6. Ports and Cabling Information

Ref. ID	Port name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded (Y/N)	Termination Box ID & Port Name
C	USB Cable	Power and data	1	1	--	Yes	NA
C	USB Cable	Power and data	1	1	--	Yes	NA

Table 5. Ports and Cabling Information



2.2.7. Mode of Operation & Method of Monitoring EUT Operation

The EUT was operated in the following manner:

CMX DL PLUS gauge has all the features of the family and therefore represents worst case of the family. Gauge is to be tested in normal measure mode with the transducer clamped to a test block. Backlight should be set to ON and the alarm beeper activated.

Performance of the EUT was monitored in the following manner:

A thickness reading with stability display (in upper left corner of display similar to cell phone signal strength bars) of at least 4 bars indicates proper operation. Thickness display (once calibrated to material) may vary +/- 0.002 inch. Note that temperature change in the transducer may require recalibration. The best mode to view operation is the RF display with the OK pressed which will show both.

2.2.8. Overall Immunity Performance Criteria

In accordance with EN 61326-1, the EUT was evaluated according to the following performance criteria where specified:

EN 61326-1 Sub-clause

6.4.1 General

The general principles (performance criteria) for the evaluation of the immunity test results are the following.

6.4.2 Performance Criterion A

The equipment shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

6.4.3 Performance Criterion B

The equipment shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

6.4.4 Performance Criterion C



Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

Reference	Descriptive Name	EN 61326-1: 2013, Table 1 Performance Criteria Required	EN 61326-1: 2013, Table 1 Performance Criteria Achieved
EN 61000-4-2: 2009	Electrostatic Discharge Immunity	B	A
EN 61000-4-3: 2006 +A1:2008 +A2:2010	Radiated Electromagnetic Field Immunity	A	A

Table 6. Performance Criteria Summary

2.2.9. Modifications to EUT

No modifications were made to the EUT.

2.2.10. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Dakota Ultrasonics upon completion of testing.



3.0 Electromagnetic Compatibility Emission Criteria

3.1. Radiated Emission: Limits of Electromagnetic Radiation Disturbance

3.1.1. Test Method, Test Requirements, and Test Procedures

3.1.1.1. Test Method

EN 55011: 2009 +A1: 2010

Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and Methods of Measurement

3.1.1.2. Test Requirements

In accordance with EN 61326-1, Section 7.2 Emission Limits, the EUT shall meet the Class A radiated emission limits shown in Table 7.

Frequency Band (MHz)	Class A Quasi-Peak limits 10 m measurement distance (dB μ V/m)
30 to 230	40
230 to 1000	47

Table 7. Radiated Emission Limits for Class A Equipment from EN 61326-1



3.1.1.3. Test Procedure

The EUT was placed on a wooden table 80 cm above a GRP located inside a semi-anechoic chamber. The method of testing, test conditions, and test procedures of CISPR 11: 2009 were used. An antenna was located 3 m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. Unless otherwise specified, measurements were made using a quasi-peak detector with a 120 kHz bandwidth.

Emissions measured at 3 m were normalized using an inverse proportionality factor of 20dB per decade for comparison to the 10 m limit. The physical size of the EUT was taken into account as to avoid near-field effects, which could occur near 30 MHz.

3.1.2. Test Results, Test Data, and Test Setup

3.1.2.1. Test Result

The EUT was **compliant** with the Class A requirement(s) of this section. Measured emissions were below applicable limits.

Environmental Conditions for Radiated Emission	
Ambient Temperature:	18.5°C
Relative Humidity:	47%
Atmospheric Pressure:	102.1 kPa

Test Engineer(s): Marcus Meyer

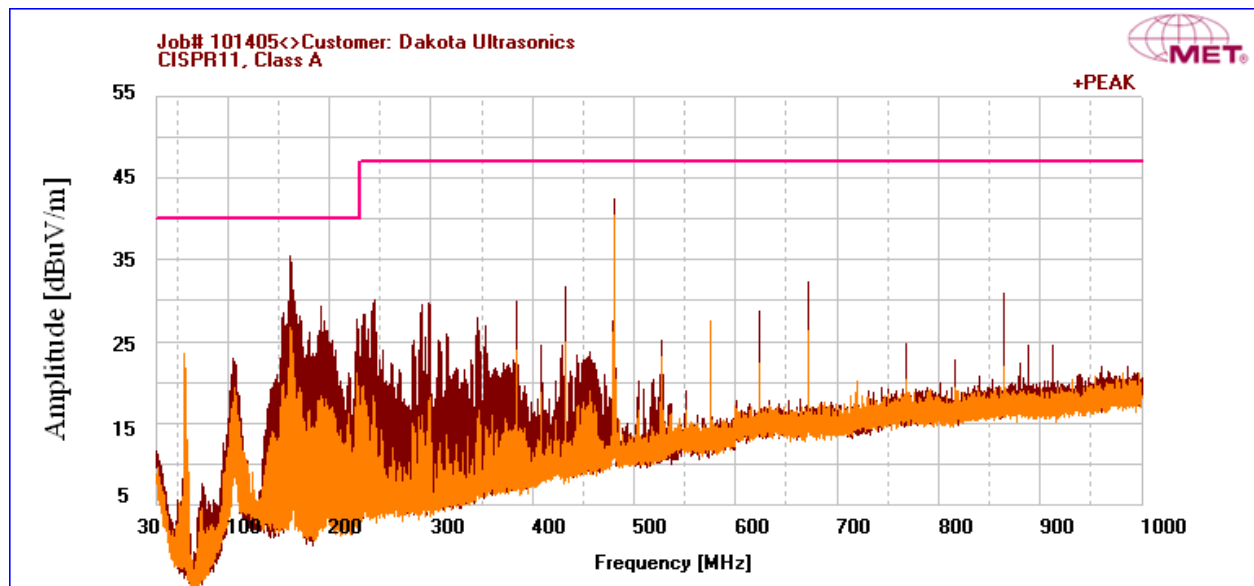
Test Date(s): 10/31/2018

3.1.2.2. Test Data

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dBuV)	ACF (dB/m)	Pre Amp Gain (dB)	CBL (dB)	DCF (dB)	Corrected Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
162.84	H	360	196.76	25.88	10.316	0	2	-10.46	27.736	40	-12.264
384	H	327	261.76	20.8	16.04	0	2.68	-10.46	29.06	47	-17.94
432	H	328	218.58	23.38	17.24	0	3.158	-10.46	33.318	47	-13.682
480	H	312	188.70	32.3	17.8	0	3.35	-10.46	42.99	47	-4.01
672	H	301	118.64	19.01	19.8	0	3.916	-10.46	32.266	47	-14.734
864	H	335	100	15.48	21.18	0	4.856	-10.46	31.056	47	-15.944

Table 8. RE - (30 MHz – 1 GHz) Test Results

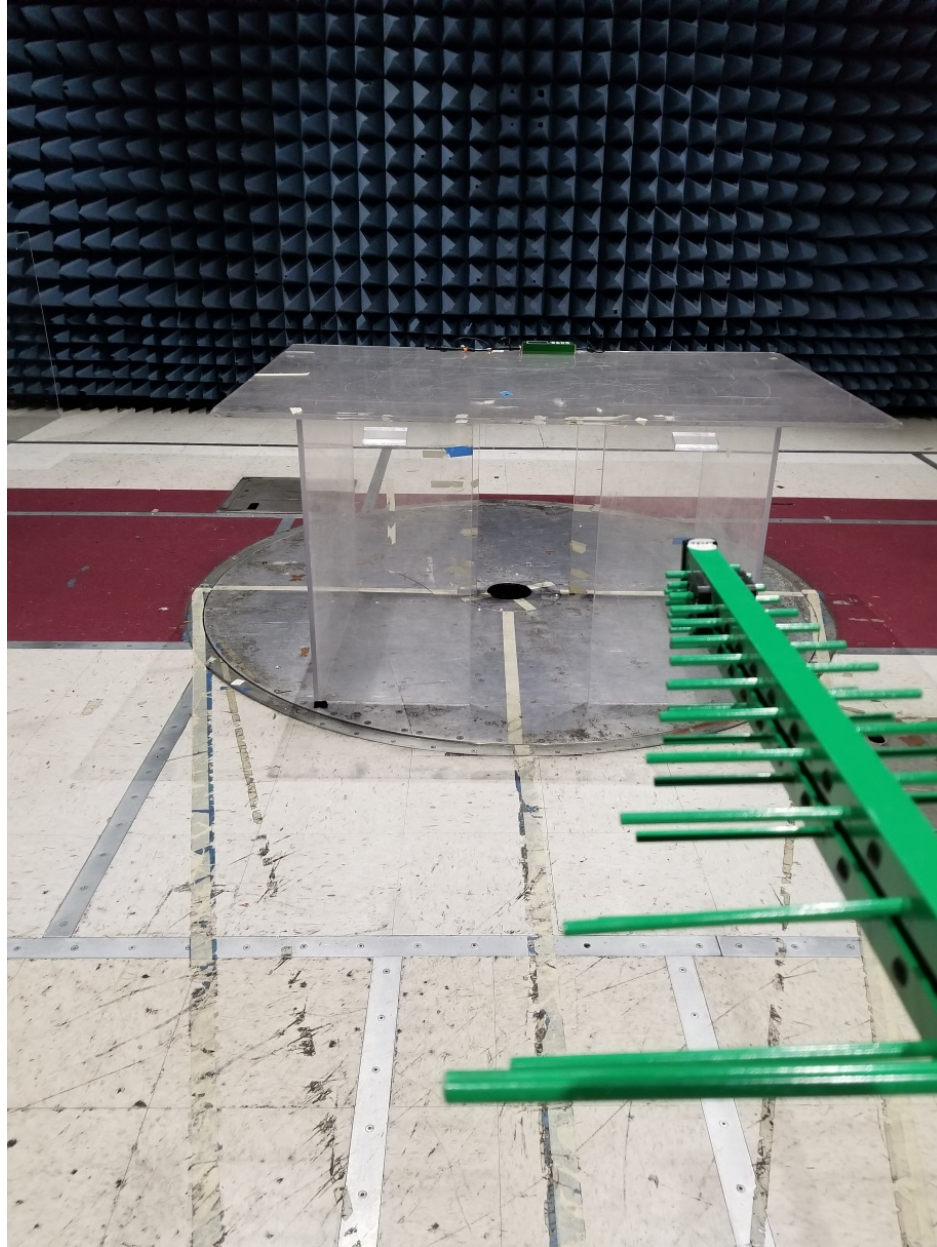
Note: The EUT was tested at 3 m. The data has been corrected for comparison with the 10 m limit using the formula: $20\log(3\text{ m}/10\text{ m})$ as expressed in the 'Distance Correction' column.



Plot 1. RE - (30 MHz – 1 GHz), Plot

 = Vertical Polarization
 = Horizontal Polarization

3.1.2.3. Test Setup Photograph



Photograph 2. RE (30 MHz – 1 GHz) Test Setup



3.1.2.4. Test Setup Photograph

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

Test Name: Radiated Emissions Electric Field			Test Date(s): 10/31/2018		
MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2399	Turntable Controller	SUNOL SCIENCE	SC99V	See Note	See Note
1S2501	EMI Test Receiver 20 Hz-40 GHz	Rohde & Schwarz	ESU40	02/16/2018	02/16/2019
1S2482	5 Meter Chamber (NSA)	Panashield	5 Meter Semi- Anechoic Chamber	See Note	See Note
1S2600	Bilog Antenna	Teseq	CBL6112D	11/28/2016	11/28/2018
Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					

Table 9. RE Test Equipment List



4.0 Electromagnetic Compatibility Immunity Criteria

4.1. Electrostatic Discharge

4.1.1. Test Method, Test Requirements, and Test Procedures

4.1.1.1. Test Method

EN 61000-4-2: 2009

Electromagnetic Discharge Immunity Test

4.1.1.2. Test Requirements

EN 61326-1, Section 6.2, Immunity Requirements

Per EN 61000-4-2, the EUT shall be tested with air discharges of up to ± 8 kV applied to non-conductive surfaces, and to contact discharges of up to ± 4 kV, applied to conductive surfaces of the EUT, HCP and the VCP.

4.1.1.3. Test Procedure

The EUT and cables were isolated from the ground reference plane by an insulating support approximately **0.5 mm** thick. Air discharges of up to ± 8 kV were applied to non-conductive surfaces. Contact discharges of up to ± 4 kV were applied to conductive surfaces of the EUT and the HCP and VCP. Discharges were applied at least ten times to each selected discharge point at each polarity with a minimum time between discharges of 1s. The functionality of the EUT was determined during and after each discharge.



4.1.2. Test Results, Test Data, and Test Setup

4.1.2.1. Test Results

The EUT was **compliant** with the requirement(s) of this section. No anomalies observed.

Environmental Conditions for Electrostatic Discharge	
Ambient Temperature:	19.3°C
Relative Humidity:	48%
Atmospheric Pressure:	102.0 kPa

Test Engineer(s): Marcus Meyer

Test Date(s): 10/31/2018

4.1.2.2. Test Data

Discharge Type	Test Voltage (±kV)	Results						Anomalies
		Front	Rear	Left	Right	Top	Bottom	
HCP	4	Pass	Pass	Pass	Pass	Pass	Pass	None
VCP	4	Pass	Pass	Pass	Pass	Pass	Pass	None
Contact Discharge	2	Pass	Pass	Pass	Pass	Pass	Pass	None
	4	Pass	Pass	Pass	Pass	Pass	Pass	None
Air Discharge	2	Pass	Pass	Pass	Pass	Pass	Pass	None
	4	Pass	Pass	Pass	Pass	Pass	Pass	None
	6	Pass	Pass	Pass	Pass	Pass	Pass	None
	8	Pass	Pass	Pass	Pass	Pass	Pass	None

Table 10. ESD Test Results

4.1.2.3. ESD Test Point Photographs



Photograph 3. ESD Test Points – Front of EUT

X = Contact Discharge Test Points
O = Air Discharge Test Points



Photograph 4. ESD Test Points – Rear of EUT



Photograph 5. ESD Test Points – Right of EUT

X = Contact Discharge Test Points
O = Air Discharge Test Points



Photograph 6. ESD Test Points – Left of EUT



Photograph 7. ESD Test Points – Top of EUT

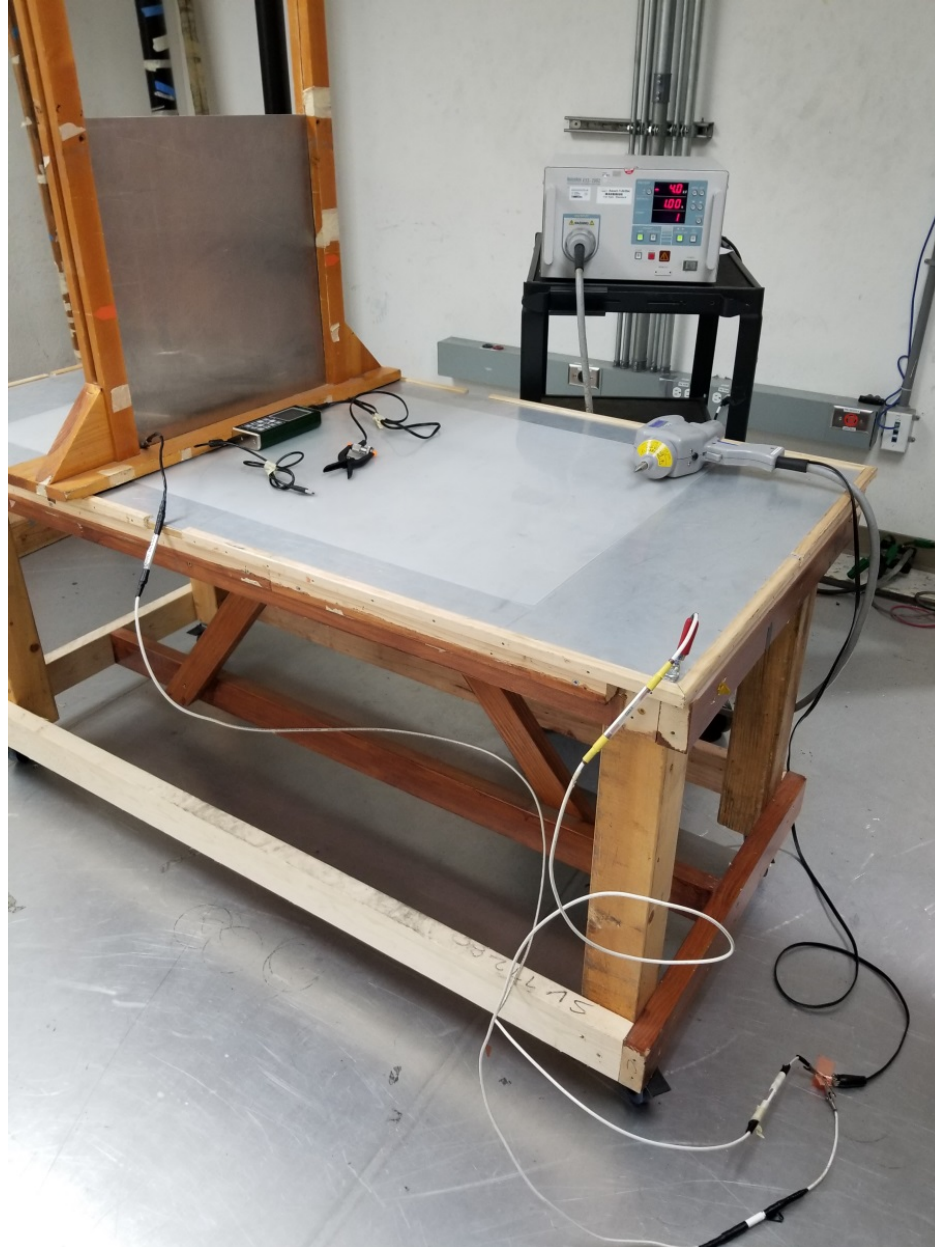
X = Contact Discharge Test Points
O = Air Discharge Test Points



Photograph 8. ESD Test Points – Bottom of EUT

X = Contact Discharge Test Points
O = Air Discharge Test Points

4.1.2.4. Test Setup Photograph



Photograph 9. ESD Test Setup



4.1.2.5. Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

Test Name: Electrostatic Discharge			Test Date(s): 10/31/2018		
MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2491	Ground Plane 3	MET LABS	N/A	See Note	See Note
1U0264	Electrostatic Discharge Simulator	NoiseKen	ESS-2002	02/16/2018	02/16/2019
1U0265	Discharge Gun	NoiseKen	TC-815R	See Note	See Note
Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					

Table 11. ESD Test Equipment List



4.2. Radio Frequency Electromagnetic Field

4.2.1. Test Method, Test Requirements, and Test Procedures

4.2.1.1. Test Method

EN 61000-4-3: 2006 +A1:2008 +A2:2010

Radiated, Radio-Frequency, Electromagnetic Field Immunity Test

4.2.1.2. Test Requirements

EN 61326-1, Section 6.2, Immunity Requirements

The EUT must not be susceptible to a radiated electromagnetic field of 10 V/m, 3 V/m, and 1 V/m, 80% amplitude modulated 1 kHz, in the frequency range 80 MHz to 2.7 GHz.

4.2.1.3. Test Procedure

Testing was performed in a semi-anechoic chamber as recommended by IEC 61000-4-3. The radiating antenna was placed 2.2 m in front of the EUT Support equipment for the EUT was located outside of the test room. The amplitude, frequency, and dwell time of the radiated interference was controlled by an automated, computer-controlled system.

The signal source was stepped through the applicable frequency range at a rate no faster than 1% of the fundamental. The signal was amplitude modulated 80% over the frequency range 80 MHz to 2.7 GHz at a level of 10 V/m, 3 V/m, and 1 V/m. The dwell time was set at 1 s. Field presence was monitored during testing via a field probe placed in close proximity to the EUT. Throughout testing, the EUT was closely monitored for signs of susceptibility. The test was performed with the antennae oriented in both a horizontal and vertical polarization.

4.2.2. Test Results, Test Data, and Test Setup

4.2.2.1. Test Result

The EUT was **compliant** with the requirement(s) of this section. No anomalies observed.

Environmental Conditions for Radio Frequency Electromagnetic Field	
Ambient Temperature:	22.6°C
Relative Humidity:	45%
Atmospheric Pressure:	102.9 kPa

Test Engineer(s): Marcus Meyer

Test Date(s): 11/02/2018



4.2.2.2. Test Data

Start Frequency (MHz)	Stop Frequency (MHz)	Severity (V/m)	Polarity (H/V)	Modulation (Freq & Type)	Results			
					Front	Back	Left	Right
80	1000	10	V	1 kHz, 80% AM	Pass	Pass	Pass	Pass
80	1000	10	H	1 kHz, 80% AM	Pass	Pass	Pass	Pass
1400	2000	3	V	1 kHz, 80% AM	Pass	Pass	Pass	Pass
1400	2000	3	H	1 kHz, 80% AM	Pass	Pass	Pass	Pass
2000	2700	3	V	1 kHz, 80% AM	Pass	Pass	Pass	Pass
2000	2700	3	H	1 kHz, 80% AM	Pass	Pass	Pass	Pass

Table 12. RI Test Results

4.2.2.3. Test Setup Photograph



Photograph 10. RI (80 MHz – 1 GHz) Test Setup



Photograph 11. RI (Above 1 GHz) Test Setup



4.2.2.4. Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2005.

Test Name: Radio Frequency Electromagnetic Field			Test Date(s): 11/02/2018		
MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2264	Radiated Immunity Chamber	LINDGREN	N/A	See Note	See Note
1S2401	Bilog Antenna	Schaffner	CBL6140A	See Note	See Note
1S2198	Horn Antenna	EMCO	3115	See Note	See Note
1S3872	Amplifier	Amplifier Research	80/20S1G8	See Note	See Note
1S2643	Signal Generator 40 GHz	Anritsu	MG3694B	09/11/2018	09/11/2019
1S2576	Amplifier (80-1000 MHz)	Amplifier Research	500W1000A	See Note	See Note
1S3929	E-Field Probe	Narda	PMM EP-601	02/05/2018	02/05/2019
Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.					

Table 13. RI Test Equipment List

5.0 CE Conformity Marketing

In order to place the CE marking on your product, it must meet all the requirements of all applicable directives.

The CE conformity marking shall consist of the initial "CE" taking the following form:



If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.

Declaration of Conformity -

The Declaration must identify the manufacturer or its authorized representative established within the 15 nation European Union (EU). The Declaration must be signed by the party empowered to enter into commitments on behalf of the manufacturer or its authorized representative established within the EU.

User's Manual -

The User's Manual which accompanies the equipment must indicate the Directive(s) to which the CE Mark indicates compliance.

Disposition of Documents -

The technical documentation package and the Declaration of Conformity must be kept within the EU at the disposal of relevant national authorities for inspection. The information must be maintained for a period ending at least 10 years after the last product has been manufactured.

Internal Production Control -

The manufacturer shall take all measures necessary in order that the manufacturing process shall ensure compliance of the manufactured products with the technical documentation and with the requirements of the Directives that apply to them.



Example of a DoC:

DECLARATION OF CONFORMITY

Application of Council Directive(s): **EU/EMC Directive 2014/30/EU**

Standards to which Conformity is Declared: **EN 61326-1: 2013**

Class A/B

Declarer's Name: **Dakota Ultrasonics**

Declarer's Address: **1500 Green Hills Road #107, Scotts Valley, CA 95066**

Type of Equipment: **CMX USB family**

I the undersigned, hereby declare under my sole responsibility that the equipment specified above conforms to the above Directive(s) and Standard(s).

(Signature)

(Date)

(Printed name)

(Title)

To be completed by Dakota Ultrasonics personnel.



6.0 Test Plan

EMC Test Plan for the Dakota Ultrasonics, CMX USB family

(Please refer to the following section numbers of EN 61326-1 for more detailed information)

EN 61326

Subclause:

5.2.2 COMPOSITION OF EUT

Manufacturer:	Dakota Ultrasonics
Model:	CMX USB family
Serial Number:	9735
Size (inches):	Height – 2.5 inches Width – 6.5 inches Length – 1.24 inches
Electrical Ratings:	4.5 VDC
Installation:	Table top
Description:	The CMX family consists of multiple versions of the same circuit board with various features enabled or disabled. CMX DL PLUS is the fully loaded version which has waveform display and data logging. CMX DL does not have the waveform display. CMX does not have waveform display or data logging. All these gauges are used to measure thickness by transit time of ultrasonic wave through the material to be tested. Thickness of piping, tanks, and bottles can be measured in various materials including steel, aluminum, glass, and some plastics.

5.2.3 ASSEMBLY of EUT

Ref. ID	Slot #	Name / Description	Model Number	Part Number	Serial Number	Rev. #
A	--	CMX thickness gauge	CMX DL +	--	9735	pcb C
A	--	CMX thickness gauge	CMX DL +	--	9736	pcb C

5.2.4 I/O PORTS

Ref. ID	Name / Description	Manufacturer	Model Number	Customer Supplied Calibration Data
B	Transducer	Dakota Ultrasonics	T-102-2900	NA
B	Transducer	Dakota Ultrasonics	T-102-2900	NA
D	Zero Block	Dakota Ultrasonics	NA	NA
D	Zero Block	Dakota Ultrasonics	NA	NA

5.2.5 AUXILIARY EQUIPMENT

Ref. ID	Port name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded (Y/N)	Termination Box ID & Port Name
C	USB Cable	Power and data	1	1	--	Yes	NA
C	USB Cable	Power and data	1	1	--	Yes	NA

5.2.6 CABLING AND EARTHING

The EUT is a battery operated device with no external grounding connections.

5.3.1 OPERATION MODES

CMX DL PLUS gauge has all the features of the family and therefore represents worst case of the family. Gauge is to be tested in normal measure mode with the transducer clamped to a test block. Backlight should be set to ON and the alarm beeper activated.

5.3.2 ENVIRONMENTAL CONDITIONS

Temperature Range: -20 to 50C
Humidity Range: Not specified
Atmospheric pressure: Not specified

5.3.3 EUT SOFTWARE DURING TEST

DEV 3.00I

5.4 TEST DESCRIPTION

Tests shall be performed as per EN 61326-1, Table 2.

Is the product Class A or Class B in nature (Commercial or Residential)? Class A

Is the product used in Industrial locations? Yes

Is the product used in Controlled Electromagnetic environments (i.e. MRI areas)? No

Is the product battery operated Portable T&M equipment? Yes

Emissions tests shall be performed as per:

1) **Class A (commercial equipment)**

Immunity tests shall be performed as per:

1) **EN 61326-1: 2013, Table 2 – Immunity test requirements for equipment intended for use in industrial locations**



Anexa
la Documentația standard nr.21652689
din 14 Iulie 2026

DECLARAȚIE
de garanție a bunurilor

Către **TERMoelectrica**

Stimați domni,

Ne angajăm să menținem garanția pentru **Achiziționarea aparatului ultrasonic de masurare a grosimii metalului.**, prin procedura de achiziție nr.**ocds-b3wdp1-MD-1784023887209** din data de **14 Iulie 2026** pentru o durată de 24 luni din data livrării.

Data completării: **22.07.2026**

Cu stimă,

Dumitru Boaghe

Digitally signed by Boaghe Dumitru
Date: 2026.07.22 12:04:19 EEST
Reason: MoldSign Signature
Location: Moldova

MOLDOVA EUROPEANĂ

