

# EasySampler 1210

Sampling Made Easy



METTLER TOLEDO



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## 1 Introduction

EasySampler 1210 enables automated and unattended sampling of chemical reactions 24/7. The unique sampling probe facilitates sampling of a wide range of chemical reactions with precision, including heterogeneous reactions, reactions at elevated pressure and sub-ambient temperatures as well as air and moisture sensitive chemistries. The representative samples gained with EasySampler 1210 provide accurate analytical data for improved reaction understanding while increasing chemists' productivity.

## 2 Safety Information

### 2.1 Definition of signal warnings and symbols

Safety notes are marked with signal words and warning symbols. These show safety issues and warnings. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results.

#### Signal words

<b>DANGER</b>	for an imminent danger with high risk, resulting in severe injuries or death if not avoided.
<b>WARNING</b>	for a hazardous situation with medium risk, possibly resulting in severe injuries or death if not avoided.
<b>CAUTION</b>	for a hazardous situation with low risk, resulting minor or medium injuries if not avoided.
<b>NOTICE</b>	for a hazardous situation with low risk, resulting in damage to the device or the property or in loss of data.
<b>Note</b>	(no symbol) for useful information about the product.

### 2.2 Product specific warnings and symbols



#### NOTICE

##### Sampling reaction at elevated pressure

When using EasySampler 1210 to sample reactions at elevated pressure, do not exceed the operating conditions specified in the EasySampler 1210 technical data section.

For safe operation of the EasySampler probe, limit the maximum pressure in the reactor to 12 bar using an adequate rupture disc.

The Operating Instructions must be read and understood. Exceeding operating conditions can cause leak of reaction mixture and damage of EasySampler 1210 and/or the Sampling Probe.



#### WARNING

##### Grounding of the power supply outlet

Make sure to plug the power cable supplied into a power supply outlet that is grounded! A technical fault could otherwise result in serious injury or death.



#### CAUTION

##### Potentially explosive environment

- Never work in an environment subject to explosion hazards! The housing of the EasySampler 1210 is not gas tight (explosion hazard due to spark formation, explosion caused by ingress of gases).
- Avoid electrostatic charge formation.



#### CAUTION

##### Crush Hazard

Do not remove the needle protection shield when the EasySampler 1210 is ON: an exposed needle can cause personal injuries.



## CAUTION

### **Pocket**

To avoid blockages, please ensure that solids sampled into the pocket are dissolved within 10 seconds. Make sure you select appropriate Quench and Dilution solvents to dissolve the solids.



## CAUTION

### **Pump**

Make sure that the viscosity of the solvents used for Quench, Dilution and Reaction is not higher than 3 mPas. As the pump will error at 6 bar pressure.



## CAUTION

### **General conditions**

Exclude the following environmental influences:

- Powerful vibration
- Direct sunlight
- Atmospheric humidity greater than 80 %
- Temperature below 5 °C or above 40 °C
- Powerful electric or magnetic field



## CAUTION

### **Usage**

- In case of damage, please contact METTLER TOLEDO.
- EasySampler 1210 is intended for indoor usage only.
- Never open the instrument! Have it serviced only by METTLER TOLEDO.
- Operate EasySampler 1210 only with standard and optional equipment provided by METTLER TOLEDO.
- While installing EasySampler 1210, make sure there is enough space to disconnect the device from the main power line.
- The operating instructions must be read and understood. If EasySampler 1210 is not used according to these operating instructions, warranty protection of the instrument may be impaired and METTLER TOLEDO assumes no liability.
- Never remove the needle protection shield when the instrument is switched on. This may cause severe injuries.
- When installing EasySampler 1210 the first time, keep in mind that isopropanol may still be present in the instrument.
- When moving the instrument or disconnecting the Sampling Probe, be aware of the solvent type in the device and probe. Run a Clean process with an alternative solvent if necessary.

### 3 EasySampler 1210 General Information and Prerequisites

This document provides the necessary guidelines to set-up and prepare EasySampler 1210 to take samples. In-depth information on the installation and operation of EasySampler 1210 can be found in the Operating Instructions (30091777).

#### Technical data

##### EasySampler 1210 System

Materials	Housing: Polypropylene PP 30% Talcum Tubing: PTFE Needle: Stainless steel Valve: Ceramic Pump: Ceramic, PTFE
Power Connection	100...240 V 50 Hz/60 Hz
User Interface	METTLER TOLEDO Touchscreen
Weight	9 kg, 20 lbs
Vials	10 mL, borosilicate glass
Rack	12 x 10 mL vials

##### EasySampler Probe

	210	330	450
Weight	0.8 kg, 1.76 lbs	0.84 kg, 1.85 lbs	0.88 kg, 1.94 lbs
Length	213 mm / 8.38"	333 mm / 13.11"	453 mm / 17.83"
Materials	Wetted parts: Alloy C-22, PTFE Non-wetted parts: Anodized aluminum, stainless steel		
Pocket Size	20 µL ±10%		
Temperature Range	-20 °C to 140 °C (for reactions at atmospheric pressure)		
Pressure	1.013 bar to 10 bar, 14.7 psi to 145 psi with the following conditions: <ul style="list-style-type: none"> <li>• Temperature range: 20 °C to 100 °C</li> <li>• Maximum reactor volume: 2500 mL</li> </ul>		
Recommended sleeve change	<ul style="list-style-type: none"> <li>• At ambient pressure: every 100 samples</li> <li>• At elevated pressure: after each experiment or 24 samples (maximum 24 samples per reaction)</li> </ul>		
Minimum Sampling Interval	2 min 52 sec		
pH	1 to 14		

#### Place it in fume hood/laboratory

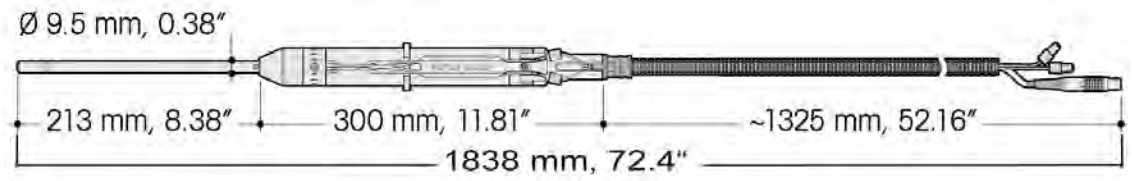
EasySampler 1210 can be easily lifted using the front and back handles.



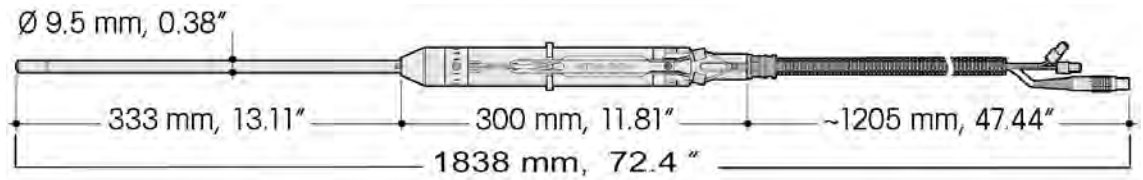


### 3.1 Probe Dimensions

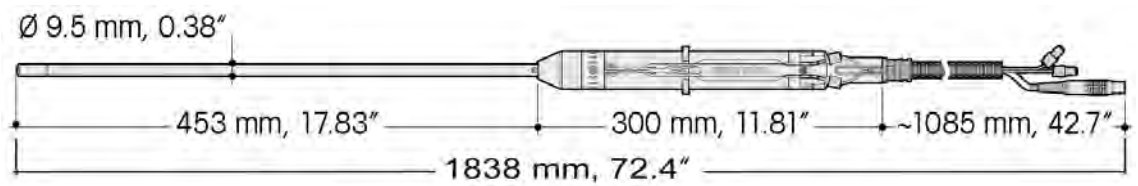
#### Probe 210



#### Probe 330



#### Probe 450



## 4 Installation and Set-up

Follow the described steps to set up EasySampler 1210. Be aware of the Safety Measures described in Chapter [Safety Information ▶ 4].



- 1 Assemble the vials by mounting the caps. Fill the rack with vials.
- 2 The vials must be properly inserted in the rack to avoid system damage during normal operation.



- 3 Align the blue arrow on the rack with the blue arrow on EasySampler 1210.
- 4 Rotate the rack lever clockwise to lock it in place.



- 5 Place the sampling probe into its holder.



- 6 Ensure the probe is securely positioned.



- 7 Secure the probe cable to the holder.



- 8 Connect the sampling probe lines (grey line to the grey port and black line to the black port; to avoid leaks, screw the fitting nuts in until you hear a "click" ) and the probe power cable .



- 9 Carefully insert the needle into its holder.



- 10 Fix the needle in place with the knurled screw.



11 Connect the fitting nut to the needle.  
12 To avoid leaks, screw the fitting nut in until you hear a "click".



13 Mount the needle protection shield.



14 Place 3 solvent bottles (minimum 180 mL each) next to EasySampler 1210, on the left hand side.  
15 Pierce the septum and carefully push the line through the hole into the bottle.



16 Fit the septum and cap onto the waste bottle (500 mL) and place the bottle under the needle.


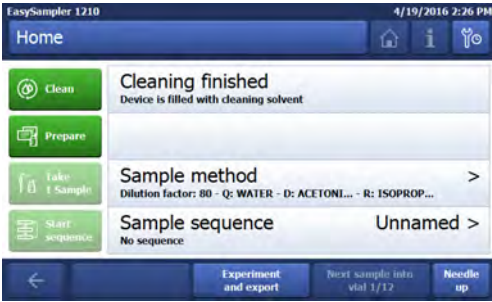
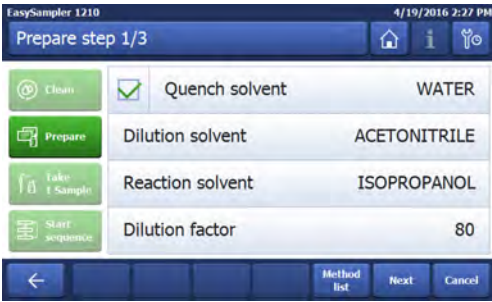
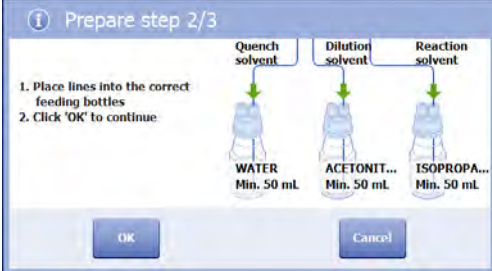




17 Connect the power cable to the back side of the device (100 V – 240 V, 50 Hz/60 Hz).



18 Press the power button to switch EasySampler 1210 on.

## 5 Getting Started

1	<p>Up to three solvents will be used for sampling operations.</p> <p>Do not insert the probe into to reaction at this point. The EasySampler 1210 touchscreen will instruct you when to do so during the <b>Prepare</b> process. One <b>Cleaning solvent</b> will be used for the <b>Clean</b> process prior to sampling.</p> <p>Clean the outside of the probe with isopropanol, or another appropriate solvent, if the EasySampler 1210 was in use before.</p>	
2		<ul style="list-style-type: none"> <li>• Select <b>Clean</b> to remove air and purge the fluid lines.</li> <li>• Follow the instructions on the touchscreen. Less than 50 mL of <b>Cleaning solvent</b> will be used for a <b>Clean</b> process.</li> <li>• Make sure to prepare enough solvent so the solvent lines do not run dry during the <b>Clean</b> process.</li> </ul>
3		<ul style="list-style-type: none"> <li>• Select <b>Prepare</b> to fill the lines with the selected sampling solvents.</li> <li>• Do not insert the probe into the reaction at this point. Follow the instructions on the screen and insert the probe when prompted.</li> </ul>
4		<ul style="list-style-type: none"> <li>• Name the <b>Quench solvent</b> (e.g. WATER). <b>Quench solvent</b> will be used to quench reactive species in the sample. If <b>Quench solvent</b> is not selected, only <b>Dilution solvent</b> will be used in the <b>Sampling</b> process.</li> <li>• Name the <b>Dilution solvent</b> (e.g. ACETONITRILE). This solvent will dilute the 20 µL reaction sample based on the user-specified <b>Dilution factor</b>.</li> <li>• Name the <b>Reaction solvent</b> (e.g. ISOPROPANOL). <b>Reaction solvent</b> will fill the pocket in preparation for taking the next sample.</li> <li>• Define a <b>Dilution factor</b> between 80 and 450. (<b>Dilution factor</b> is how many times the 20 µL sample is diluted, e.g. <b>Dilution factor</b> 80 means 20 µL sample is diluted 80 times (20 µL x 80 = 1.6 mL in the vial))</li> <li>• Select <b>Next</b>.</li> </ul>
5		<ul style="list-style-type: none"> <li>• Follow the instructions on the touchscreen.</li> <li>• The pocket will move out, and then back in as part of the <b>Prepare</b> process.</li> <li>• Select <b>OK</b>.</li> </ul>

<p><b>6</b></p>		<ul style="list-style-type: none"> <li>• The touchscreen will indicate the time to place the probe into the reactor and the pocket will move out (8 mm). Loosen the collar (with the green dot) on the probe headpiece and align the green dot with the pocket. Tighten the collar.</li> <li>• Fit an appropriate adapter onto the probe and carefully insert the probe to the empty reactor.</li> <li>• Adjust the height of the probe in the reactor so that the probe tip remains clear of any stirrer and other probes. Tighten the adapter onto the probe so that the height of the probe in the reactor is fixed.</li> <li>• Select <b>OK</b> on the touchscreen, and the pocket will move back in.</li> <li>• Prepare the reactor for the reaction by adding the necessary solvents, starting materials and reagents.</li> <li>• Turn the probe so that the sample pocket (indicated by the green dot) faces 180° away from the stirrer. This ensures reproducible samples of the reaction mixture, and is especially important for precise sampling of heterogeneous reactions.</li> <li>• Ensure the probe tip is fully immersed in the reaction mixture. EasySampler 1210 is now ready to take samples.</li> </ul>
<p><b>7</b></p>		<ul style="list-style-type: none"> <li>• Select <b>Take 1 Sample</b>.</li> <li>• After the sample process is completed, the system is ready to take the next sample.</li> <li>• Please refer to the Operating Instructions on how to program a sample sequence.</li> </ul>

# 6 Certifications

## 6.1 CE Declaration of conformity 20140016.pdf

**METTLER TOLEDO**

(EN) EU Declaration of Conformity / (DE) EU-Konformitätserklärung / (FR) Déclaration de conformité européenne / (ES) Declaración de conformidad UE / (IT) Certificazione di conformità UE / (BG) ЕС декларация за съответствие / (CS) EU Prohlášení o shodě / (DA) EU-overensstemmelseserklæring / (EL) Δήλωση συμμόρφωσης Ε.Ε. / (ET) ELi vastavusdeklaratsioon / (FI) EU-vaatimustenmukaisuusvakuutus / (GA) Dearbhú Comhréachtá AE / (HR) EU izjava o skladnosti / (HU) EU Megfelelőségi nyilatkozat / (JA) EU 適合宣言 / (KO) EU 적합성 선언 / (LT) ES atitikties deklaracija / (LV) ES atbilstības deklarācija / (MT) Dikjarazzjoni ta' Konformità tal-UE / (NL) EU-conformiteitsverklaring / (PL) Deklaracja zgodności UE / (PT) Declaração de Conformidade da UE / (RO) Declarație de conformitate UE / (RU) Декларация о соответствии требованиям ЕС / (SK) EÚ Vyhlásenie o zhode / (SL) Izjava o skladnosti EU / (SV) EU-försäkran om överensstämmelse / (TH) เอกสารแสดงการปฏิบัติตามมาตรฐานสหภาพยุโรป (Declaration of Conformity) / (ZH) EU 一致性声明

<b>Product</b> / Προϊόν / Produkt / Prodotto / Προϊόν / Výrobek / Produkt / Προϊόν / Toote / Tuote / Тауа / Προϊον / Тримек / 製品名 / 製品 / Gamlins / Įstražėjimas / Produkt / Product / Produkt / Prodotto / Produz / Продукт / Produkt / Izdelek / Produkt / 製品 / 产品	<b>Sample Taker</b> <b>EASYSAMPLER 1210</b>
<b>Manufacturer</b> / Hersteller / Fabricant / Fabricante / Produttore / Производител / Výrobce / Producent / Κατασκευαστής / Tootja / Valmistaja / Doimléir / Proizvođač / Gyártó / メーカー / 製造商 / Gamintojas / Ražotājs / Manufaktur / Producent / Producent / Fabricante / Produčtor / Производители / Výrobca / Proizvajalec / Tilverkare / 製造商 / 製造商	<b>Mettler-Toledo GmbH</b> Im Langacher 44 8606 Greifensee SWITZERLAND

This declaration of conformity is issued under the sole responsibility of the manufacturer. / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. / La présente déclaration de conformité est établie sous la seule responsabilité du fabricant. / La presente declaración de conformidad se exhibe bajo la exclusiva responsabilidad del fabricante. / La presente certificazione di conformità è rilasciata sotto la responsabilità esclusiva del produttore. / Η αποκλειστική ευθύνη για τη σύνταξη και έκδοση της παρούσας δήλωσης συμμόρφωσης εφόσον η αποκλειστική ευθύνη του κατασκευαστή. / Se vastavusdeklaratsioon on väljastatud looja ainuvastutusele. / Vaatimustenmukaisuusvakuutus on annettu valmistajan yksinomaalisella vastuulla. / Is faoi thréagraíochtaí an tianálaithe amháin á dtéarma an dearbhú comhréachtá seo. / Ova izjava o skladnosti izdaje se pod punom odgovornošću proizvođača. / Ar atbalui atbildētājais ir ražotājs vienatīri. / この適合宣言書はメーカーの単独責任において発行されます。 / 이 적합성 선언은 제조업체의 단독 책임하에 발행되었습니다. / Ši atitikties deklaracija lietuota tik gamintojo atsakomybe. / Šī atbilstības deklarācija ir izdota vienīgi uz ražotāja atbildību. / Din id-dikjarazzjoni ta' konformità hi mahruġa taht ir-responsabbiltà unika tal-manifattur. / Deze conformiteitsverklaring wordt verstrekt onder de exclusieve verantwoordelijkheid van de producent. / Ta deklaracja zgodności została wystawiona na wyłączną odpowiedzialność producenta. / Esta declaração de conformidade é emitida sob a responsabilidade exclusiva do fabricante. / Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului. / Настоящая декларация о соответствии была выдана под исключительной ответственностью производителя. / Toto vyhlásenie o zhode vydáva výrobca na vlastnú zodpovednosť. / За издање о складности је одговоран искључиво произвођач. / Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar. / เอกสารแสดงการปฏิบัติตามมาตรฐานสหภาพยุโรปนี้จัดทำขึ้นโดยผู้ผลิตภายใต้ความรับผิดชอบที่ผู้ผลิตเพียงผู้เดียว / 本一致性声明基于制造商独立承担责任的原则。

The object of the declaration described above is in conformity with the following European directives and standards or normative documents: / Der oben beschriebene Gegenstand der Erklärung erfüllt die Vorschriften der folgenden europäischen Richtlinien und Normen oder normativen Dokumenten: / L'objet de la déclaration décrit ci-dessus est en conformité avec les directives et normes européennes suivantes et autres documents à vocation normative: / El objeto de la declaración descrita anteriormente se ajusta a lo establecido en las siguientes directivas, normas u documentos normativos europeos: / L'oggetto della dichiarazione di cui sopra è conforme a direttive, norme o standard europei di seguito: / Предметът на декларацията, описан по-горе, е в съответствие със съдържанието на европейски директиви и стандарти или нормативни документи: / Vyše popsaný predmet prohlášení je v souladu s následujícími evropskými směrnici a normami nebo normativními dokumenty: / Gegenstand der Erklärung ist, wie beschrieben, mit den folgenden Richtlinien, Normen oder normativen Dokumenten: / Το αντικείμενο της δήλωσης που περιγράφεται παραπάνω συμμορφώνεται με τις παρακάτω ευρωπαϊκές οδηγίες και πρότυπα ή κανονιστικά έγγραφα: / Užminjetatuo deklaracijas tēmele atbilst šādām Eiropas direktīvas, normām vai noteikumiem: / A fent említett nyilatkozat tárgya megfelel az alábbi európai irányelveknek, szabványoknak, illetve normatív jogszabványoknak: / 上述的宣言书的目的是，确保以下的欧洲指令および規格あるいは規定文書に適合していることを宣言することです: / 上述的宣言书的目的是，确保以下所列的欧洲指令、标准或规范性文件符合。 / Pirmiau aprašytas deklaracijos objektas atitinka šias Europos direktyvas ir standartus ar norminius dokumentus: / Kopriekš aprakstītais deklarācijas priekšmets atbilst šādām norādītajām Eiropas direktīvu un standartu vai normatīvajiem dokumentiem: / L'oggett tad-dikjarazzjoni deskritta hawn fuq hu konformi mad-direttivi Ewropej u l-standards jew id-dokumenti normattivi li ġejjin: / Het voorwerp van voornoemde verklaring is in overeenstemming met de volgende Europese richtlijnen en normen of normatieve documenten: / Tresc powyższej deklaracji jest zgodna z następującymi dyrektywami europejskimi oraz normami lub dokumentami normatywnymi: / O objektu de declaracijoje užrašyta informacija atitinka šiuos Europos direktyvas ir normas, standartus, bei kitus normatyvius dokumentus: / Obiectul declarației descrisă mai sus este în conformitate cu următoarele directive și standarde europene sau acte normative: / Предмет декларације, описаног горе, одговара садржају европских директива и стандарата или нормативних докумената: / Predmet vyhláše uvedeného vyhlásenia o zhode je v súlade s nasledujúcimi európskymi smernicami a normami alebo normatívnymi dokumentmi: / Predmet ovog objave izjave je skladan s sledećim evropskim direktivama i normama: / Föremålet för försäkran som beskrivs ovan överensstämmer med följande europeiska direktiv och standarder eller harmoniserade dokument: / Предмет заявления о соответствии приведенной информации с содержанием следующих европейских директив, стандартов и нормативных документов: / 上述声明的目标与下面的欧洲指令、标准或规范性文件相符。

## EC - DECLARATION OF CONFORMITY

KD No.: 30083900

Document No.: 20140016

The undersigned, representing the following manufacturer

**Mettler-Toledo GmbH**  
**Im Langacher 44**  
**8606 Greifensee, SWITZERLAND**



herewith declares that the product

**Sample Taker**  
**EASYSAMPLER 1210**

certified model: --

is in conformity with the provisions of the following EC directives (incl. amendments)

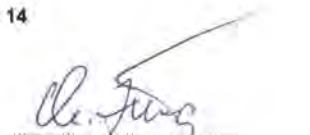
**2006/95/EC; 2014/35/EC \*\*\*** Low voltage (LVD)  
**2004/108/EC; 2014/30/EC \*\*\*** Electromagnetic compatibility (EMC)

and that the standards have been applied. \*\*\* valid after 20.04.2016

Last two digits of the year in which the CE marking was affixed: **14**

8606 Greifensee  
18.04.2016

  
Roel Ferwerda  
General Manager AutoChem

  
Christoph Jung  
Head SPG Chemistry Sampling Solutions

References of standards for this declaration of conformity, or parts thereof:  
Harmonized standards of Europe and Switzerland:

Safety standards:  
**IEC/EN61010-1:2010**

EMC standards (\* Emission; \*\* Immunity):  
**IEC61326-1:2012 / EN61326-1:2013 (class B \*)**  
**IEC61326-1:2012 / EN61326-1:2013 (Industrial requirements \*\*)**

Metrological standards:

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IP standards:

--


Standards for Canada, USA and Australia:

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# EC - DECLARATION OF CONFORMITY

KD No.: 30083900

Document No.: 20140016

<b>Type code</b>	
other types of same construction:	
WXSS204	<b>Tested type</b>
WXxyyyxx	Series name
x	Design (built in or desk top version)
x	Terminal (standard or professional)
yyy	Load cell (mechanical)
xx	Function (software)
<p>Where y in the model designation may be up to 3 digits can be any number 0 to 9. Where x in the model designation may be any letter A to Z denoting SELV/ELVEL secondary circuits or minor mechanical differences.</p>	
<b>Remarks:</b>	





# Certificate of Compliance

**Certificate:** 70020551 **Master Contract:** 173467  
**Project:** 70020551 **Date Issued:** January 22, 2015  
**Issued to:** Mettler-Toledo AG  
ENL Testing Laboratory  
Im Langacher 44  
Greifensee, 8606  
Switzerland  
Attention: Roger Marti (NE223)

*The products listed below are eligible to bear the CSA Mark shown*



Manoj Waghela

Issued by: Manoj Waghela

## **PRODUCTS**

**CLASS 8721 86** - ELECTRICAL EQUIPMENT FOR LABORATORY USE - Certified to US Standards

**CLASS 8721 06** - LABORATORY EQUIPMENT - Electrical

Automatic Sampling Device Model EASYSAMPLER 1210, rated 100-240 VAC, 50/60 Hz, 44 VA

## Notes:

1. The above model is detachable cord connected, Equipment Class I, Pollution Degree 2, Installation Category II,
2. Mode of operation: continuous
3. Environmental Conditions: Temperature: 5 °C to 40 °C, Altitude: 2000 m, Humidity: 80 % for temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C; non-condensing



**Certificate:** 70020551

**Master Contract:** 173467

**Project:** 70020551

**Date Issued:** January 22, 2015

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### **APPLICABLE REQUIREMENTS**

CSA Standards:

CAN/CSA-C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

UL Standards:

UL Std. No. 61010-1 (3rd Edition) - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

### **CONDITIONS OF ACCEPTABILITY**

1. The main supply cord set provided with the equipment must be an approved type acceptable to the authorities in the country where the equipment is sold.
2. If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
3. Equipment is not to be used with flammable liquids.

## Manufacturing of Pressure Assemblies

In reference to 2014/68/EU

**Pressure Assemblies:** EasySampler Probe 450 (part number: 30279540)  
EasySampler Probe 330 (part number: 30306934)  
EasySampler Probe 210 (part number: 30043400)

**Manufacturer:** Mettler Toledo GmbH, Im Langacher, Greifensee (CH)

**Product Specifications at elevated pressure**

Maximum / Minimum specified Pressure (PS)	10 bar / 1.013 bar
Maximum / Minimum specified Temperature (TS)	100 °C / 20 °C
Maximum Reactor Volume applied:	2500 mL
Nominal Size of EasySampler Probe (DN)	< 6

**Safety Equipment:** None

**Classification according directive 2014/68/EU** Annex II/Chapter 4 Paragraph 3

**Conformity Assessment Procedure**

The listed pressure assemblies are outside the scope of directive 2014/68/EU, Chapter 1, Article 1, 2(f) with reference to Article 13 and in accordance with Annex II of this directive. Design specification, manufacturing and testing has been conducted in accordance with the sound engineering practice in order to ensure safe use. Applied parameters in product testing: 20 to 110 °C temperature range, 17.5 bar pressure, reactor volume of 100 mL.

**CE Labeling**

According to chapter 4 (3) of the directive 2014/68/EU the listed pressure assemblies shall not bear the CE marking referred to in the directive 2014/68/EU.

Instructions for safe use are included in the EasySampler operating instructions.

Date and Location

Manufacturer

Signature

May, 17 2016 Schwerzenbach

METTLER TOLEDO



Head Strategic Product Group CSS

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