sylvac

*Experts in connected metrology!*

**SETTING THE BAR EVEN HIGHER** WITH EVO CALIPERS!

# EVO




SIS Smart Inductive System

IOT READY

SWISS MADE

**A comprehensive range**

**New design**

**IP67 for the entire range**

All models are equipped with the reputable SIS system, are insensitive to magnetic fields and liquids and operate with low consumption and a battery life of up to 3 years.
**Standard or special jaws, we have all the solutions.**

**Sylvac SA** - Avenue des Sciences 19, 1400 Yverdon-les-Bains (CH)
Tel. +41 21 637 67 57 - Email. info@sylvac.ch - Web. www.sylvac.ch

sylvac SWISS MADE

# BASIC

SIS Smart Inductive System

Very low consumption
Automatic sleep mode and re-activation
Memorisation of the position




- Basic version, with no data output
- Measuring range up to 300mm

## TECHNICAL SPECIFICATIONS

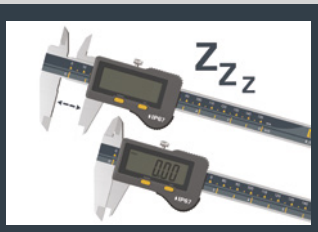
| | | 810.1502 | 810.1507 | 810.1522 | 810.1532 |
|---|---|---|---|---|---|
| Model | mm | Basic | Basic | Basic | Basic |
| Measuring range | mm | 150 | 150 | 200 | 300 |
| Depth gauge | mm | 4x1.4 | Ø1.5 | 4x1.4 | - |
| Resolution | mm | 0.01 | 0.01 | 0.01 | 0.01 |
| Protection | | IP67 | IP67 | IP67 | IP67 |

IP67 SIS Smart Inductive System DIN 862

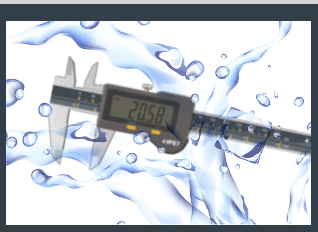
## SPECIFICATIONS




Depth gauge



Absolute system S.I.S.



IP67 protection




Large display

# PROXIMITY

PROXIMITY




810.1702




810.9702

1µm

Like the Basic version and in addition:

- Proximity data output via RS232 or USB
- Also available with micron resolution

## TECHNICAL SPECIFICATIONS

| | | 810.1702 | 810.1707 | 810.1722 | 810.1732 | 810.9702 | 810.9707 |
|---|---|---|---|---|---|---|---|
| Model | mm | Proximity | Proximity | Proximity | Proximity | Proximity Micron | Proximity Micron |
| Measuring range | mm | 150 | 150 | 200 | 300 | 150 | 150 |
| Depth gauge | mm | 4x1.4 | Ø1.5 | 4x1.4 | - | 4x1.4 | Ø1.5 |
| Resolution | mm | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.001 |
| Protection | | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |

IP67 SIS Smart Inductive System DIN 862

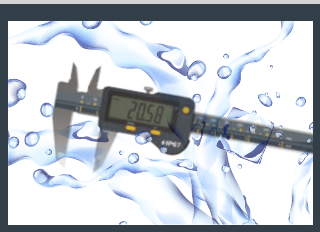
## SPECIFICATIONS




Depth gauge




Micron version



IP67 protection




Proximity data output

# SMART

IOT READY

Bluetooth®




SIMPLE - PAIr - HId

Like the Basic version and in addition:

- Bluetooth® wireless data output with 3 different connection profiles: Simple, Pair or HID
- Also available with micron resolution

## TECHNICAL SPECIFICATIONS

| | | 810.1506 | 810.1516 | 810.1526 | 810.1536 | 810.9506 | 810.9516 |
|---|---|---|---|---|---|---|---|
| Model | mm | Smart | Smart | Smart | Smart | Smart Micron | Smart Micron |
| Measuring range | mm | 150 | 150 | 200 | 300 | 150 | 150 |
| Depth gauge | mm | 4x1.4 | Ø1.5 | 4x1.4 | - | 4x1.4 | Ø1.5 |
| Resolution | mm | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.001 |
| Protection | | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |

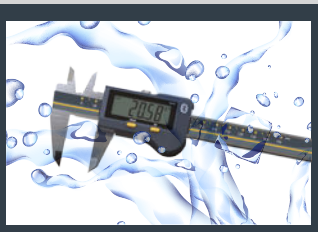
IP67 SIS Smart Inductive System DIN 862

## SPECIFICATIONS



Depth gauge


Micron version


IP67 protection



Bluetooth® data output

# CARBIDE




810.1509

Carbide jaws




810.1409

- Carbide jaws
- With or without Bluetooth® wireless data output (Simple, Pair, HID)

## TECHNICAL SPECIFICATIONS

| | | 810.1509 | 810.1409 |
|---|---|---|---|
| Model | mm | Carbide Smart | Carbide |
| Measuring range | mm | 150 | 150 |
| Depth gauge | mm | 4x1.4 | Ø1.5 |
| Resolution | mm | 0.01 | 0.01 |
| Protection | | IP67 | IP67 |

IP67 SIS Smart Inductive System DIN 862

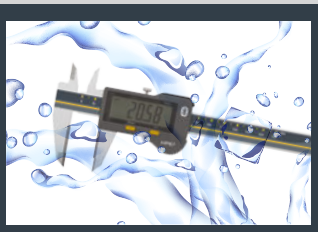
## SPECIFICATIONS




Depth gauge



Carbide jaws



IP67 protection




With or without data output

# FORM E & B

IOT READY

Bluetooth®

## WITH CONNECTION PROFILES

SIMPLE - PAIr - HId




- «Mid Size» R5 version for inside and outside measurements
- Bluetooth® wireless data output (Simple, Pair, HID)
- Measuring range up to 500mm

## TECHNICAL SPECIFICATIONS

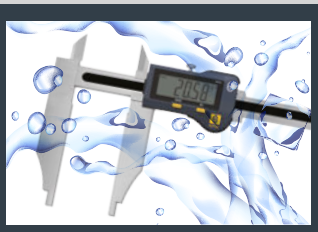
| | | 810.1546 | 810.1556 | 810.1558 |
|---|---|---|---|---|
| Model | mm | Form E Smart | Form B Smart | Form B Smart |
| Measuring range | mm | 300 | 300 | 500 |
| Bar section | mm | 17x5 | 17x5 | 17x5 |
| Resolution | mm | 0.01 | 0.01 | 0.01 |
| Protection | | IP67 | IP67 | IP67 |

IP67 SIS Smart Inductive System DIN 862

## SPECIFICATIONS


Measurement jaws

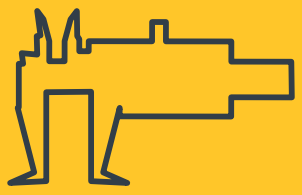

Wide selection of functions


IP67 protection



Bluetooth® data output

# SPECIAL






Like the Smart version and in addition:

- Special jaws for measuring internal or external grooves and deep measurements, depending on the model.

## TECHNICAL SPECIFICATIONS

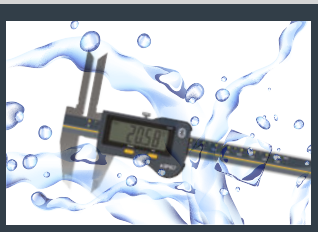
| | | 810.1600 | 810.1601 | 810.1602 | 810.1603 |
|---|---|---|---|---|---|
| Model | mm | Internal Groove | Points Jaws | External Groove | Deep Measurement |
| Measuring range | mm | 150 | 150 | 150 | 150 |
| Depth gauge | mm | 4x1.4 | 4x1.4 | 4x1.4 | 4x1.4 |
| Resolution | mm | 0.01 | 0.01 | 0.01 | 0.01 |
| Protection | | IP67 | IP67 | IP67 | IP67 |

IP67 SIS Smart Inductive System DIN 862

## SPECIFICATIONS

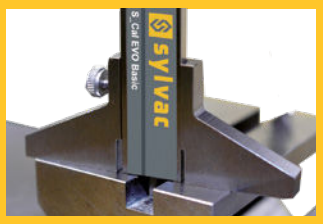

Special jaws


Depth gauge


IP67 protection


Bluetooth® data output

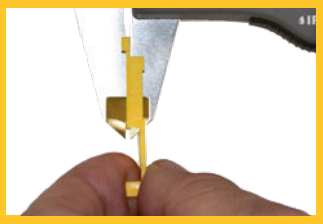
SWISS MADE









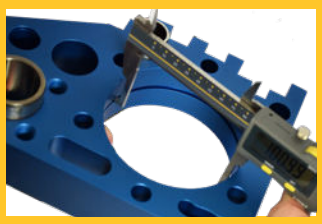




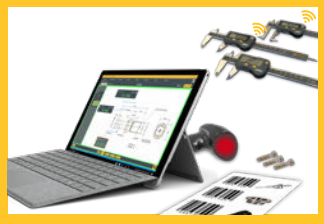
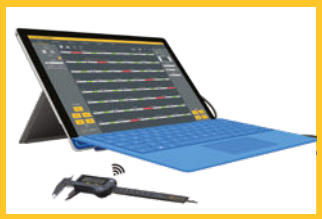










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# Module EVO Smart

**Instructions**
**Mode d'emploi**
**Bedienungsanleitung**
**Manuale d'uso**
**Instrucciones de uso**

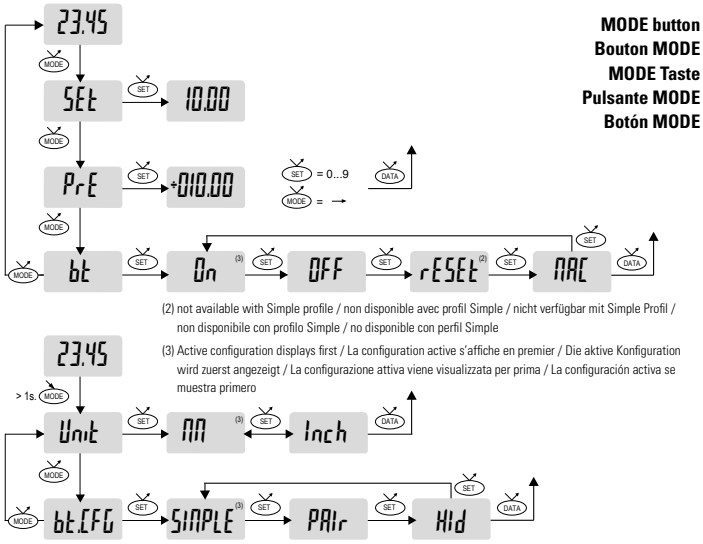
note (1)
(Data/Favorite) Button
Bouton (Data/Favoris)
(Data/Favoriten) Taste
Pulsante (Data/Preferiti)
Botón (Data/Favoritos)



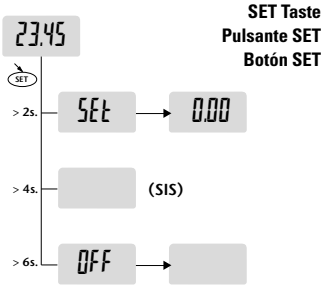

Battery (CR2032)



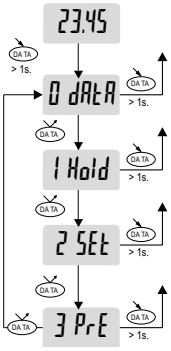
**Replacing the battery**
**Changement de la pile**
**Auswechseln der Batterie**
**Sostituzione della batteria**
**Sustitución de la batería**




**MODE button**
**Bouton MODE**
**MODE Taste**
**Pulsante MODE**
**Botón MODE**

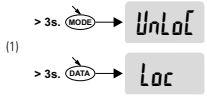



**SET button**
**Bouton SET**
**SET Taste**
**Pulsante SET**
**Botón SET**




**Favorite settings**
**Options favorites**
**Konfiguration Favoriten**
**Opzioni preferite**
**Opciones favoritas**

→ note (1)




**Activation/Deactivation Favorite settings**
**Activation/Désactivation Options favorites**
**Aktivierung/Deaktivierung Konfiguration Favoriten**
**Attivazione/Disattivazione Opzioni preferite**
**Activatión/Desactivatión Opciones favoritas**

**Configuration**
**Configuration**
**Konfiguration**
**Configurazione**
**Configuración**

Bluetooth®

| | |
|---|---|
| **off / éteint / aus / spento / apagado** | disconnected / déconnecté / keine Verbindung / scollegata / desconectado |
| **blinking / clignote / blinkend / lampeggiante / parpadeante** | advertising / détection / bereit zur Verbindung / scoperta / detección |
| **on / allumé / stehend / acceso / encendido** | connected / connecté / Verbindung hergestellt / collegata / conectado |
| rESEt | clear pairing information / efface les informations d'appairage / Kopplung aufheben / cancellare le informazioni di accoppiamento / eliminar su información de emparejamiento |
| MAC | display the MAC address / affiche l'adresse MAC / zeigt die MAC Adresse / visualizza l'indirizzo MAC / muestra la dirección MAC |
| SIMPLE | profile without pairing / profil non appairé / Profil ohne Kopplung / profilo non accoppiato / perfil no apareado |
| PAIr | paired and secured profile / profil appairé et sécurisé / Profil mit Kopplung und Verschlüsselung / profilo accoppiato e sicuro / perfil apareado y seguro |
| HId | virtual keyboard / clavier virtuel / virtuelle Tastatur / tastiera virtuale / teclado virtual |

**Technical data**
**Données techniques**
**Technische Daten**
**Specifiche**
**Especificación**

Bluetooth®

| | |
|---|---|
| **Frequency band / Bande de fréquence / Frequenzband / Banda di frequenza / Banda de frecuencia** | 2.4GHz (2.402 - 2.480GHz) |
| **Modulation / Modulation / Modulation /** | |
| **Modulazione / Modulación** | GFSK (Gaussian Frequency Shift Keying) |
| **Max output power / Puissance max / Max Leistungsabgabe / Potenza di cresta / Potencia de pico** | Class 3: 1mW (0dBm) |
| **Range / Portée / Reichweite / Portata / Alcance** | Open space/Espace Ouvert/Im Freien/Spazio aperto/Espacio abierto : <15 m<br>Industrial environment/Environnement industriel/Industrielles Umfeld/Ambiente industriale/Entorno industrial : 1-5 m |
| **Autonomy / Autonomie / Autonomie /** | |

**Continuous** : up to 2 months (Always connected with 4 values /s.) / jusqu'à 2 mois (Toujours connecté avec 4 valeurs /s.) / bis zu 2 Monaten (Immer verbunden mit 4

## Specifications
## Spécifications
## Spezifikationen
## Specificazioni
## Especificaciones

| | | |
|---|---|---|
| **Resolution / Résolution / Auflösung / Risoluzione / Resolucón** | 0.01 / .0005'' | 0.001 / .00005'' |
| **Max slider speed / Vitesse max / Max Verteilgeschwindigkeit / Velocity max / Velicidad màx** | Max 2.5m/s. - 100''/s. | |
| **Display refresh rate / Nombre de mesure-s / Anzahl Messungens-s / Numero di mesura-s / Número de medidas-s** | > 10 / s. | |
| **Data output / Sortie de données / Datenausgang / Uscita dati / Salida de datos** | Bluetooth® 4.0<br>2.4GHz | |
| **Mean power consumpt. / Consommation moyenne / Verbrauch / Consumo / Consumo** | 45 µA | |
| **Battery life / Vie de la batterie / Batterie-Lebensdauer / Autonomia / Autonomia** | Bluetooth® OFF : 8000h<br>Bluetooth® ON : See Bluetooth® technical data | |
| **Working temperature (storage) / Température de travail (stockage) / Arbeitstemperatur(Lagerung) / Temperatura operativa (stoccaggio) / Temperatura de trabajo (almacenamiento)** | +5° to +40°C<br>(-10° to +60°C) | |
| **Measuring system / Système de mesure / Messsystem / Sistema di misura / Sistema de medida** | Sylvac system patented | |
| **IP specification / Spécification IP / IP spezifikation / Specifica IP / Especificatión IP** | IP 67 (IEC60529) | |

Advanced functions and additional information: refer to website www.sylvac.ch

## Certifications
## Certifications
## Zertifikat
## Certificato
## Certificado

**CERTIFICATE OF CONFORMITY**
We certify that this instrument has been manufactured in accordance with our Quality Standard and tested with reference to masters of certified traceability by the federal institute of Metrology.

**CERTIFICAT DE CONFORMITE**
Nous certifions que cet instrument a été fabriqué et contrôlé selon nos normes de qualité et en référence avec des étalons dont la traçabilité est reconnue par l'institut fédéral de métrologie.

**QUALITÄTSZEUGNIS**
Wir bestätigen, dass dieses Gerät gemäss unseren internen Qualitätsnormen hergestellt wurde und mittels Normalen mit anerkannter Rückverfolgbarkeit, kalibriert durch das eidgenössische Institut für Metrologie, geprüft worden ist.

**CERTIFICATO DI CONFORMITÀ**
Con il presente si certifica che questo strumento è stato prodotto secondo il nostro standard sulla qualità e controllato rispetto a campioni di riferibilità riconosciuta dall'instituto federale di metrologia.

**CERTIFICADO DE CONFORMIDAD**
Certificamos que este instrumento ha sido fabricado conforme a nuestras normas de calidad y ha sido controlado en relación con patrónes de trazabilidad reconocida por la oficina nacional de metrología.

## Bluetooth® Certification

**DESCRIPTION OF BLUETOOTH® MODULE:**
This module is based on Nordic Semiconductor nRF8001 µBlue Bluetooth Low Energy Platform. The nRF8001 is a single chip transceiver with an embedded baseband protocol engine, suitable for ultra-low power wireless applications conforming to the Bluetooth Low Energy Specification contained within v4.0 of the overall Bluetooth specification. The nRF8001, used in the current revision of ISP091201, is a production product using a RoM for the baseband protocol engine.

**US/CANADA CERTIFICATION**

Sylvac

m.n : EVO

This device contains
FCC ID: 2AAQS-ISP091201
IC: 11306A-ISP091201

**JAPAN CERTIFICATION**

R 001-A06167

**TAIWAN CERTIFICATION**

CCAH18LP2040T6

警語
經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。
前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

**MEXICO CERTIFICATION**

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

**Contiene modulo inalámbrico**
**Marca: Sylvac**
**Modelo: ISP091201D**
**IFT: RCPSYIS14-0655**

## Maintenance

## Maintenance
## Unterhalt
## Avviso
## Mantenimiento

Carefully dry all mechanical parts of the instrument after contact with liquids to ensure proper operation and avoid corrosion. Don't use aggressive products (alcohol, trichloroethylene or others) to clean plastic parts. Don't expose the instrument to direct sunlight, heat or humidity.

**BRAZIL CERTIFICATION**
En cas de projections de liquides, essuyer les parties métalliques de l'instrument afin de garantir un bon fonctionnement mécanique, et éviter les problèmes de corrosion.
Ne pas utiliser de produits agressifs (alcool, trichloréthylène, etc) pour le nettoyage des parties plastiques.
Ne pas entreposer l'instrument dans un endroit exposé au soleil, à la chaleur ou à l'humidité

Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo e não pode causar interferência a sistemas operando em caráter primário.

Nach Kontakt mit Flüssigkeit die mechanischen Teile gut trocknen um ein einwandfreies Funktionieren zu garantieren und Rostprobleme zu vermeiden.
Keine aggressiven Produkte (Alkohol, Trichlorethylen oder andere) für die Reinigung der Kunstoffteile benutzen.
Die Instrumente nicht an einem der Sonne, Hitze oder Feuchtigkeit ausgesetzen Ort aufbewahren.

In caso di proiezione di liquidi, asciugare le parti metalliche dello strumento in maniera di garantire un buon funzionamento meccanico, ed per evitare i problemi di corrosione.
Non usare prodotti aggressivi per la pulizia dell parti in plastico.
Non eporrere lo strumento al sole, vicino a findi di calore o all' unidità.

Seque cuidadosamente todas las partes metálicas del instrumento para evitar cualquier humedad y así garantizar un buen funcionamiento mecánico y evitar óxido.
No use productos agresivos (alcohol,tricloretilo u otros) para limpiar las partes de plástico.
No exponer el instrumento al sol, calor o humedad.

MODELO: ISP091201D
ANATEL 005116-14-04534

**SOUTH KOREA CERTIFICATION**

Class A Equipment (Industrial Use)

이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

**NOTICE:**
Changes or modifications made to this equipment not expressly approved by Sylvac may void the FCC authorization to operate this equipment.

**NOTICE:**
This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions.
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:**
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**RADIOFREQUENCY RADIATION EXPOSURE INFORMATION:**
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Sylvac is under license. Other trademarks and trade names are those of their respective owners.

IP67

Changes without prior notice
Sous réserve de toute modification
Änderungen vorbehalten
Soggetto a modifica senza preavviso
Reservados los derechos de modificación sin previo aviso

Edition : 2018.10 / 681.295.04-100
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Fax +41 21 637 67 40
Email admin@sylvac.ch
www.sylvac.ch

# EU DECLARATION OF CONFORMITY (DoC)

We, Sylvac SA, hereby declare under our sole responsibility that the product

| | |
|---|---|
| Name | S_Cal Evo Smart |
| Description | Professional caliper with Bluetooth® wireless technology |
| Part Numbers | 810.1506, 810.1516, 810.1526, 810.1536, 810.1409, 810.1509<br>810.9506, 810.9516, 810.1602, 810.1600, 810.1601, 810.1603,<br>810.1546, 810.1556, 810.1558 |

has been submitted to a conformity assessment and fulfils the essential requirements of the following European directives

| | |
|---|---|
| 2001/95/EC | General product safety |
| 2014/30/EU | EMC |
| 2011/65/EU & 2015/863/EU | RoHS |
| 2014/53/EU | Radio Equipment Directive (RED) |

and complies with the following harmonized standards or other normative documents

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|---|---|
| EN 61326-1:2013 | Electrical equipment for measurement, control and laboratory use – EMC requirements |
| EN 50581:2012 | Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances |
| EN 300 328 V1.7.1 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems |

Person authorized to compile the technical file and issue the declaration of conformity: Eric Schnyder

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|---|---|
| Place and date of issue | Yverdon-Les-Bains, September 12, 2019 |
| Name (position) | Eric Schnyder (CEO) |
| Signature |  |