

# EU-Type Examination Certificate Supplement 3

2 **Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres  
Directive 2014/34/EU**

3 EU-Type Examination Certificate Number: **BVS 12 ATEX E 026 U**

4 Product: **Cell type Saft M20 EX SV**

5 Manufacturer: **Friemann & Wolf Batterietechnik GmbH**

6 Address: **Industriestraße 22, 63654 Büdingen, Germany**

7 This supplementary certificate extends EC-Type Examination Certificate No. BVS 12 ATEX E 026 U to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in the confidential Report No. PP 12 2075 EU.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 + A11:2013    General requirements**  
**EN 60079-11:2012                Intrinsic Safety "i"**

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 **II 2G**

DEKRA EXAM GmbH  
Bochum, 2017-04-28

  
\_\_\_\_\_  
Certifier

  
\_\_\_\_\_  
Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 12 ATEX E 026 U  
Supplement 3**

15 **Product description**

15.1 **Subject and type**

Cell type Saft M20 EX SV

There are six different configurations of the cell type Saft M20 EX SV with different part numbers. The differences between the configurations are not relevant for intrinsic safety.

Cell designation	Part Number	Tab configuration
Saft M20 EX SV KP/S	414 2187 103	Positive and negative end caps
Saft M20 EX SV /T	414 4180 203	+/- tab in C-configuration
Saft M20 EX SV /T/Z	414 4180 703	+/- tab in Z-configuration
Saft M20 EX SV K/+T	414 2180 403	Only + tab with endcap
Saft M20 EX SV K/T	414 2180 203	+/- tab in C-configuration with endcap
Saft M20 EX SV K/T/Z	414 2180 703	+/- tab in Z-configuration with endcap

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.  
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reason for the supplement:

Change to Directive 2014/34/EU and the construction of the cell type Saft M20 EX SV was slightly modified.

Description of Product

The cell type Saft M20 EX SV is a lithium-manganese dioxide (Li-MnO<sub>2</sub>) cell and contains spirally wound electrodes with a separator between them. The cell type is produced as variants B and C.

15.3 **Parameters**

Nominal voltage  
Rated capacity

$U_0 = 3.0 \text{ V}$   
12.4 Ah at 150 mA

16 **Report Number**

BVS PP 12.2075 EU, as of 2017-04-28

## 17 Installation Instructions

- 17.1 This component should not be brought without any additional safety elements in a potentially explosive atmosphere.
- 17.2 The combination of the cell and the safety elements must be tested and certified.
- 17.3 For the temperature class T4 this cell is intended for use in a temperature range at the mounting location from -40 °C to +72 °C.

## 18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

## 19 Drawings and Documents

Drawings and documents are listed in the confidential report.