

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 03ATEX1074 X** Issue Number: **6**

(4) Product: **Indicator Model F1 Series**

(5) Manufacturer: **Fluidwell B.V.**

(6) Address: **Voltaweg 23, 5466 AZ Veghel, The Netherlands**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 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 confidential test report number NL/DEK/ExTR11.0033/02.

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(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 1 G Ex ia IIB/IIC T4 Ga
II 1 D Ex ia IIIC T₂₀₀ 100 °C Da

Date of certification: 22 February 2019

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 03ATEX1074 X**

Issue No. 6

(15) **Description**

The range of Indicators includes the following basic models with different signal input types:

Model F1..-P-XI, indicators with digital input (coil, switch, npn, pnp, active or Namur);

Model F1..-A-XI, indicators with analog input ((0)4 ... 20 mA);

Model F1..-R-XI, indicators with analog input (0 ... 100 KOhm);

Model F1..-U-XI, indicators with analog input (0 ... 10 V);

Model F1..-T-XI, indicators with PT100 input.

The range of Indicators Series F1 includes the basic models with their variations as indicated in Annex 1.

The enclosure of the indicator provides a degree of protection of at least IP65 in accordance with EN 60529.

Ambient temperature range: -40 °C to +70 °C, only for equipment category 1 D (EPL Da) the maximum ambient temperature is limited to 50 °C, see specific conditions of use.

The maximum temperature of the enclosure T_{200} 100 °C is referred to an ambient temperature of 50 °C and a maximum dust layer thickness of 200 mm.

When used in a potentially explosive atmosphere requiring apparatus of equipment category 2 D (EPL Db), the equipment may be used with a maximum dust layer thickness of 5 mm.

Electrical data

See Annex 1 for electrical data.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0033/02.

(17) **Specific conditions of use**

When the enclosure of the Indicator is made of aluminium alloy, when used in a potentially explosive atmosphere requiring apparatus of equipment category 1 G, the Indicator shall be installed so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.

For EPL Da the ambient temperature T_a shall not exceed 50 °C.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 03ATEX1074 X**

Issue No. **6**

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0033/02.

(20) **Certificate history**

Issue 1 -	202852800	Initial certificate
Issue 2 -	207715000	Ambient temperature change
Issue 3 -	209282300	Changes in the construction
Issue 4 -	211777000	Changes in the construction
Issue 5 -	219149100	Assessed to the latest edition of standards
		Addition of variant "NAMUR and stainless steel enclosure option
Issue 6 -	223345200	Assessed to the latest edition of standards, minor changes to the construction