Translation

(1) # EU-Type Examination Certificate

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

(3)	**Certificate Number**	**TÜV 17 ATEX 198530**	**issue:** 00
(4)	for the product:	Evaluators type SU501 VF13	
(5)	of the manufacturer:	KROHNE S.A.S	
(6)	Address:	2 Allée des Ors BP 98 26103 Romans-sur-Isère France	
	Order number:	8000470985	
	Date of issue:	2017-04-04	

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 ATEX Assessment Report No. 17 203 198530.

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

EN 60079-0:2012 + A11:2013 **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 for 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 equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II (1) G [Ex ia Ga] IIC or
II (1) D [Ex ia Da] IIIC or
II (M1) [Ex ia Ma] I

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

Meyer

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 17 ATEX 198530 issue 00**

(15) Description of product
The evaluators type SU501 VF13 are used for the safe galvanic separation of the intrinsically safe circuit from all non-intrinsically safe circuits.
The apparatus supplies passive, intrinsically safe 4-20 mA two wire measuring sensors and evaluates the analogue transmitted measuring data.
The intrinsically safe signal circuit is safe galvanically separated from the non-intrinsically safe circuits up to a peak value of the voltage of 375 V.

Type code:
SU501 VF13.CA/K/XC/XF

Electrical data:

Supply voltage
(Terminals 9 and 10)

only for the connection to a non-intrinsically safe circuit with following maximum values:
U = 20 ... 72 V d. c. or 20 ... 253 V a. c.
U_m = 253 V a. c.

Signal circuit
(Terminals 1 and 2)

in type of protection „Intrinsic Safety" Ex ia IIC/IIB/I with following maximum values

U_o = 20 V
I_o = 125 mA
P_o = 624 mW
characteristic line: linear
The effective internal capacitances and inductances are negligibly small.

Ex ia	IIC		IIB/IIC	I
Max. permissible ext. inductance	1.7 mH	0.6 mH	5 mH	5 mH
Max. permissible ext. capacitance	110 nF	120 nF	870 nF	1800 nF

The maximum values of the table are also allowed to be used up to the permissible limits as concentrated capacitances and as concentrated inductances.

Relay output
(Terminals 12, 13/14)

only for the connection to a non-intrinsically safe circuit with following maximum values:

a. c. current: 250 V, 3 A, 500 VA
d. c. current: 250 V, 1 A, 54 W

Transistor output
(Terminals 5 and 6)

only for the connection to a non-intrinsically safe circuit with following maximum values:

36 V, 60 mA
U_m = 253 V a. c.

Thermal data:
Ambient temperature range: $-20\ °C \leq T_a \leq +60\ °C$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 17 203 198530

(17) Specific Conditions for Use
None

(18) Essential Health and Safety Requirements
No additional one

- End of Certificate -