





UK - Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres UKSI 2016:1107 (as amended)
- (3) UK Type Examination Certificate Number

EPS 23 UKEX 1 183 X

Revision 0

(4) Equipment:

Capacitive Pressure Transmitter Series 41X-Ei and 46X-Ei

(5) Manufacturer:

KELLER Druckmesstechnik AG

(6) Address:

St. Gallerstrasse 119 8404 Winterthur Switzerland

- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 23TH0359.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018/AC:2020

EN 60079-11:2012

EN 60079-26:2015

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This UK Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 1/2G Ex ia IIC T4 Ga/Gb



Warrington, 02-10-2023

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services United Kingdom Limited. EPS 23 UKEX 1 183 X, Revision 0.

Bureau Veritas Consumer Products Services United Kingdom Limited https://www.bureauveritas.co.uk/consumer-products-testing +44 (0) 1925 854 360

Registered Office: 4b Olympic Way Birchwood, Warrington, WA2 0YL

Registered in England & Wales Company Number: 00852439







Annex (13)

UK - Type Examination Certificate EPS 23 UKEX 1 183 X

Revision 0

(15)Description of equipment:

The capacitive pressure transmitter series 41X-Ei or 46X-Ei is used for measuring pressures in potentially explosive atmospheres requiring category 1 or category 2 equipment. The series 41X-Ei capacitive pressure transmitter is used to measure pressure in areas requiring category 1 equipment and must be installed in the boundary wall to the area with category 1 requirements.

The transmitter can be used as a pressure transmitter with threaded connection (series 41X-Ei) or as a level probe (series 46X-Ei) for hydrostatic pressure measurement. The maximum permissible ambient temperature range is: -20 °C to +80 °C.

Electrical data:

Supply circuit (Pins: VCC+, GND) in type of protection intrinsic safety Ex ia IIC; only for connection to certified intrinsically safe circuits with

maximum values:

= ≤ 30 V

≤ 100 mA Pi

≤ 640 mW Ci negligibly small

negligibly small

Signal and interface circuits

(Pins: RS485A, RS485B, +OUT)

in type of protection intrinsic safety Ex ia IIC; maximum values:

Uo ≤ 14.7 V

≤ 464 mA lo

≤ 1.71 W Po

 C_i negligibly small

negligibly small Li

(16)Reference number: 23TH0359

Special conditions for safe use:

The metal housing must be grounded by suitable methods.

Strong charge generating processes, stronger than manual rubbing, must be excluded.

The material of the membrane must not be exposed to external environmental stresses which could affect the 3.

4. The partition wall must not be exposed to continuous vibrations.

For pressure measurements requiring category 1 equipment, the device must be built into the boundary wall (tightness at least IP67).

(18)Essential health and safety requirements:

Met by compliance with standards

department of explosion protection

Warrington, 02-10-2023

Certificates without signature and seal are void. This entificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services United Kingdom Limited. EPS 23 UKEX 1 183 X, Revision 0.

Bureau Veritas Consumer Products Services United Kingdom Limited https://www.bureauveritas.co.uk/consumer-products-testing +44 (0) 1925 854 360

Registered Office: 4b Olympic Way Birchwood, Warrington, WA2 0YL

Registered in England & Wales Company Number: 00852439

Natalie W