

- [1] **1st Addition to
EC-TYPE EXAMINATION CERTIFICATE IBExU08ATEX1146 X**
according to Directive 94/9/EC, Annex III
(Translation of 14 November 2017)



- [2] Equipment: **Oxygen transmitter**
Type OxyTrans II
- [3] Manufacturer: Pro-Chem Analytik GmbH
- [4] Address: Timmermannsweg 1
46509 Xanten
Germany

[5] **Addition / Alteration**

The additions / changes to the equipment mentioned under [2] compared to the already certified equipment concern in detail:

- a) Type OxyTrans II with revised electronics and new display. The inner capacitance is decoupled to the outside.
- b) The equipment also meets the requirements of the current EN 60079 series of standards.

[6] **Test Report**


The proof of the explosion protection of the equipment mentioned in [2] is documented in test report IB-15-3-210 of 2016-01-14. The test documents are part of the test report and are listed there.

[7] **Test result**

IBExU certifies that the equipment mentioned in [2] fulfils the in Annex II of Directive 94/9/EC fixed Essential Health and Safety Requirements by compliance with EN 60079-0:2012+A11:2013, EN 60079-11:2012 and EN 60079-26:2015.

The device mentioned in [2] fulfills the requirements of type of protection intrinsic safety for an explosion-protected equipment for group II, category 1/2G, explosion group IIC and temperature class T4.

The marking of the equipment mentioned in [2] shall include the following:

 **II 1/2G Ex ia IIC T4 Ga/Gb**
 $+5\text{ °C} \leq T_{\text{amb}} \leq +50\text{ °C}$

The safe function of the equipment was not checked by IBExU.

This addition is only valid in connection with the EC-Type Examination Certificate IBExU08ATEX1146 X of 2008-10-21.

The Special Conditions remain unchanged.

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Freiberg, 2016-01-14

Authorized for certifications
- Explosion protection -

By order


(Dipl.-Ing. Willamowski)



Certificates without signature and seal are not valid.
Certificates may only be duplicated completely and unchanged.
In case of dispute, the German text shall prevail.

[13] **Annex**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU08ATEX1146 X**

[15] **Description of the equipment**

The oxygen transmitter is used to measure the oxygen content in pressureless gases in different measuring ranges. It consists of an electrochemical sensor in a stainless steel housing and an attached evaluation electronics, which is supplied with voltage via an external safety barrier.

Ambient temperature range: +5 °C up to +50 °C

Supply and signal circuit in type of protection intrinsic safety Ex ia IIC

Plug (1 and 2)	U_i	28 V
	I_i	93 mA
	P_i	700 mW
effective internal capacitance	C_i	14 nF
effective internal inductance	L_i	1.5 mH

[16] **Test report**

The proof of the explosion protection is explained in detail in the Test Report IB-08-3-289. The test documents are part of the test report and are listed there.

Summary of the test results:

The oxygen transmitter type OxyTrans fulfills the requirements of type of protection intrinsic safety for an explosion-protected equipment for group II, category 1/2G, explosion group IIC and temperature class T4.

[17] **Special conditions for safe use**

- The ambient temperature range is set from +5 °C to +50 °C.
- The housing of the measuring cell is to be connected via the gas supply line or by a separate connection to the equipotential bonding.

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 2008-10-21


(Dipl.-Ing. Willamowski)