

[1] **EC-TYPE EXAMINATION CERTIFICATE**
according to Directive 94/9/EC, Annex III
(Translation)



[2] Equipment and Protective Systems intended for use
in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU10ATEX1014**

[4] Equipment: **Pressure measuring transmitter**
type ADZ-SMX2 and ADZ-PSX2

[5] Manufacturer: ADZ NAGANO GmbH

[6] Address: Bergener Ring 43
01458 Ottendorf-Okrilla
Germany

[7] The design of the equipment mentioned in [4] and any acceptable variations thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that the in [4] mentioned equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The test results are recorded in the test report IB-09-3-383 of 6 May 2010.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2006, EN 60079-11:2007 and EN 60079-26:2007.

[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 under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned in [4] shall include the following:

ADZ-SMX2 with flange plug

II 1G Ex ia IIC T4

ADZ-SMX2 (other plugs)

II 1G Ex ia IIB T4 or II 2G Ex ia IIC T4

ADZ-PSX2

II 1G Ex ia IIB T4 or II 2G Ex ia IIC T4
-40 °C ≤ T_a ≤ +85 °C

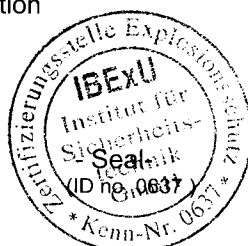
IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0) 3731 3805-0 - 📠 +49 (0) 3731 23650

Authorised for certifications Explosion protection

By order

(Dipl.-Ing. Willamowski)

Schedule



Freiberg, 6 May 2010

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] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU10ATEX1014**

[15] **Description of the equipment**

The pressure measuring transmitter ADZ-SMX2 and the level probe ADZ-PSX2 are pressure transmitters consisting of a measuring cell and an evaluation electronics arranged on several boards in a high-grade steel enclosure with process tap. The equipment can be used in all Ex-zones. It is supplied with an intrinsically safe power source.

Category 1 equipment

The measuring cell of the pressure measuring transmitter may be operated in zone 0 at normal atmospheric conditions (temperature from -20 °C to +60 °C, pressure from 0.8 bar to 1.1 bar, content of oxygen about 21 %).

Types:

ADZ-SMX2 pressure measuring transmitter in type of protection Intrinsic Safety with a current output 4...20 mA

ADZ-PSX2 level probe in type of protection Intrinsic Safety with a current output 4...20 mA

Technical Data

Ambient temperature range: -40 °C to +85 °C (apart from zone 0)
Medium temperature range: -40 °C to +100 °C

Electrical Data

Supply electric circuit: in type of protection Intrinsic Safety Ex ia IIC
(terminals: +U; -U)

U_i 27 V
I_i 125 mA
P_i 0.85 W
C_i 5 nF
L_i negligible

[16] **Test report**

The test results are recorded in the test report IB-09-3-383. The test documents are part of the test report.

Summary of the test results:

The pressure measuring transmitter ADZ-SMX2 and the level probe ADZ-PSX2 fulfil the requirements of type of protection Intrinsic safety on an electrical apparatus of the Equipment Group II, Explosion Group IIB or IIC, Category 1G or 2G and Temperature Class T4.

[17] **Special conditions**

none

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

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

By order

Freiberg, 6 May 2010


(Dipl.-Ing. Willamowski)