

(3) EU-Type Examination Certificate Number:



TPS 20 ATEX 107616 0001 X Rev. 00

- (4) Equipment or Protective System: Batch Controller - type: AWZ-B* series
- (5) Manufacturer: Shenzhen Autoware Science & Technology Co., Ltd.
- (6) Address: Room 1502~1505, Yinxing zhijie No.3 Building, Xinlan Community
Sightseeing Road No1301-76, Guanlan Street, Longhua District,
Shenzhen, PEOPLE'S REPUBLIC OF China
- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) TÜV SÜD Product Service GmbH, Notified Body no. 0123, 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 the confidential reports with no. 88.500.18.201.01
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-1:2014**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe 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:

EN IEC 60079-0:2018 EN 60079-1:2014

 II 2G Ex db IIB T6 Gb

Certification Body,

München, 02.06.2020

Ing. Kristof De Gersem, MSc.

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Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX5A 107616 0001 Rev. 00

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Schedule



Product Service

(13)

(14)

EU-Type Examination Certificate no.

TPS 20 ATEX 107616 0001 X Rev. 00

Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue of certificate.	88.500.18.201.01	02.06.2020

(15)

Description of equipment:

The AWZ-B* series Explosion-Proof batch controllers are used for installation in Explosive atmospheres.

They consist of a cover and an enclosure housing, which are made of 304 stainless steel. There are several electrical instruments in the enclosure that are in a defined arrangement.

The batch controller AWZ-B* series are in Explosion protection type "Ex db", EPL level Gb. They are intended to be installed at Gas Explosive atmospheres classified as Zone 1 and Zone 2. The grouping of the equipment is IIB, the classification of maximum surface temperature is T6 ($\leq 85^{\circ}\text{C}$).

Metric (M) thread types are used for explosion protection type "d".

See the user instructions for further details.

Model designation:

AWZ - $\frac{*}{1}$ $\frac{*}{2}$ $\frac{*}{3}$ $\frac{*}{4}$ $\frac{*}{5}$

- 1: Batch controller Mark
- 2: B-Wall-mounted type
G-Cabinet type
- 3: 1-One controller and one loading position
2-One controller and two loading position
3-One controller and three loading position
4-One controller and four loading position
- 4: 0-Without IC Card
1-With IC Card
- 5: G- GE PLC
S- Siemens PLC

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Doc. Name: Temp-ExNBG-TPS-EU-Type-Cert-Rev. 04

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TPS 20 ATEX 107616 0001 X Rev. 00

Technical data:

Power supply	Input voltage 220Va.c. Output voltage 24Vd.c. power:100W
Input signal	Flow, 0-10KHz pulse signal / 4-20mA current signal; discrete input
Output signal	0/4-20mA current signal, 0-10V voltage signal DC24V/AC220V active or passive output
Ambient temperature	-40°C≤Ta≤+60°C

Warning label:

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

CAUTION – USE FASTENERS WITH YIELD STRESS ≥ 210MPa

Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Special conditions for safe use.

(16) Test report(s): 88.500.18.201.01

Routine tests:

The manufacturer must perform an overpressure routine test according EN/IEC 60079-1 on each equipment during production (100 % routine test):

- 1.6Mpa / 10 s

Document List:

File no.:	Description:	Pages:	Rev:	Date:
AUTO-AWZ-0228-005A	Batch controller electrical schematic	1	V1.0	2019/3/1
AUTO-AWZ-0227-0000	List of drawings	1	V1.0	2019/3/1
AUTO-AWZ-0227-000A	General assembly drawing	1	V1.0	2019/3/1
AUTO-AWZ-0227-0001	Design Notes	1	V1.0	2019/3/1

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File no.:	Description:	Pages:	Rev:	Date:
AUTO-AWZ-0227-002A	Explosive-proof Plate	1	V1.0	2019/3/1
AUTO-AWZ-0227-019A	Warning Plate	1	V1.0	2019/3/1
AUTO-AWZ-0227-020A	Product Plate	1	V1.0	2019/3/1
AUTO-AWZ-0227-031A	Company Name Plate	1	V1.0	2019/3/1
AUTO-AWZ-0227-032A	Product Brand Plate	1	V1.0	2019/3/1
AW-Y-2-2019-08	Cement technology manual	1	2019	2019/3/1
AW-Y-2-2019-10	NFC reader manual	11	2019	2019/3/18
AW-Y-2-2019-11	Component list summary table	1	2019	2019/3/1
AW-Y-2-2019-17	Operation instruction	66	2019	2019/3/1
AW-Y-2-2019-16	Declaration of Conformity (DRAFT version)	1	2019	2020/1/1

A copy of the full documentation is kept confidentially at TÜV SÜD.

(17) Special conditions for safe use:

- Repairs of the flameproof joints can only be performed by the manufacturer or on behalf of the manufacturer and on his own responsibility. Repair in compliance with the values of EN 60079-1 is not accepted.
- The cable glands are Ex components which are certified as DNV 14 ATEX 4324 X. The installation requirements of cables and cable gland shall be fully according to user manual. They cannot be replaced.
- The installation must be in according with the requirements of EN 60079-14: latest version or according a National equivalent standard, valid at the location of installation.
- During installation, equipment must be internally and additionally externally grounded through the internal and external earth connections provided.
- The ambient temperature range is -40°C to +60°C (Ta).
- This Explosion Proof equipment is in a defined arrangement tested and certified by TÜV SÜD, they cannot be modified, and additional equipment's or components cannot be installed inside. No modifications are permitted.

(18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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