



[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**

[2] Equipment or protective systems
intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU21ATEX1064 X** | Issue 0

[4] Product: **Plug-on Display**
Type: HS517I

[5] Manufacturer: Hansford Sensors Ltd

[6] Address: Artisan, Hillbottom Road
Sands Industrial Estate
High Wycombe, Buckinghamshire HP12 4HJ
UNITED KINGDOM

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 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 test report IB-21-3-0099.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 and 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 of 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:

II 2G Ex ia IIC T4 Gb

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dipl.-Ing. Willamowski



Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

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.

Freiberg, 2021-06-29

[13]

Schedule

[14]

Certificate number IBExU21ATEX1064 X | Issue 0

[15] **Description of product**

The plug-on display type HS517I is used in intrinsically safe electrical systems to display a measured value of a 4...20 mA current signal and generates up to 2 PNP open collector switching outputs for limit value monitoring.

Technical data:

Ambient temperature range: from -25 °C to +70 °C

Supply and signal electric circuit in type of protection Intrinsic Safety Ex ia IIC:

(UB+ and UB-)

U_i = 28 V DC

I_i = 93 mA

P_i = 660 mW

effective internal capacitance

C_i negligible

effective internal inductance

L_i negligible

plus cable inductivities 1 µH/m and cable capacities 100 pF/m

[16] **Test report**

The test results are recorded in the confidential test report IB-21-3-0099 of 2021-06-29.
The test documents are part of the test report and they are listed there.

Summary of the test results

The Plug-on Display type HS517I fulfil the requirements of type of protection Intrinsically safety 'ia' on an electrical component for Equipment Group II, Category 2G, Explosion Group IIC and temperature class T4.

[17] **Specific conditions of use**

- No energy may be supply from the outside into the active switching exits.
- The equipment designed with connector have to be installed in such a way, that the Degree of protection IP20 always will be kept.
- The safety and assembly notes contained in the operating instructions and the ambient temperature range $-25\text{ °C} \leq T_a \leq +70\text{ °C}$ have to be observed.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

[19] **Drawings and Documents**

The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order


Dipl.-Ing. Willamowski

Freiberg, 2021-06-29