

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 20 ATEX 8583 X

Issue: 00

- (4) Equipment: **80G Radar Level Instrument type ScanRad SC R8**
- (5) Manufacturer: **Scanjet Ariston AS**
- (6) Address: **Moen 12, 3948 Porsgrunn, Norway**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8583.00/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2018

EN 60079-11: 2012

- (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 schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 1 G Ex ia IIC T6...T4 Ga
II 1 D Ex ia IIIC T85°C...T135°C Da

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-12-29



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
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(13) Annex

(14) **EU Type Examination Certificate**
TÜV 20 ATEX 8583 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Radar Level Instrument type ScanRad SC R8

15.2 Description / Details of Change

General product information

80G Radar Level Instrument named ScanRad SC R8 is developed for use on cargo and slop-tanks on board chemical and product carriers.

The final equipment is the combination of Mainframe and Antenna.
 Take user manual for detailed setup.

4-20mA analogue output for signal transfer.

ScanRad SC R8 80G radar level instrument are designed and constructed with type of protection "ia" for gas group IIC and dust group IIIC. Ex marking:

 II 1 G Ex ia IIC T6...T4 Ga
 II 1 D Ex ia IIIC T85°C...T135°C Da

Technical Data

Elektrische Daten/ Electrical data

Interface	Terminal	Ui	Ii	Pi	Ci	Li
4-20mA	1 and 2	30.6V	131mA	1.0W	0	102uH

Umgebungsdaten/ Environmental data

Ta (mainframe): Refer to table below

But the T class to the whole equipment is impacted by the process temperature. Refer to the table below for application:

Ta of mainframe	Process temperature at the antenna	T class of whole equipment
-40-50°C	-40-50°C	T6/85°C
-40-60°C	-40-95°C	T5/100°C
-40-70°C	-40-130°C	T4/135°C

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(16) Test-Report No. GC/Ex8583.00/20

(17) Special Conditions for safe use

- Electrical connections and IS input parameters should be observed in accordance with Ex instruction.
- WARNING – Potential Electrostatic Charging Hazard-See Instructions.
- The equipment shall be protected from the sunlight to avoid the UV impact.
- The temperature class depends on Ta and process temperature as the table below listed,

-40-50°C	Process temperature at the antenna	T class of whole equipment
-40-60°C	-40-50°C	T6/85°C
-40-70°C	-40-95°C	T5/100°C
	-40-130°C	T4/135°C

- The radar level instrument shall use the suitable certified cable gland and blank element with $T_s \geq 100^\circ\text{C}$.
- Installation of the equipment shall follow IEC 60079-14 last edition or any national equivalent standards.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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Cologne, 2020-12-29



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