

**1 EU - Type Examination Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 23 ATEX 1501 X Issue: 0

4 Equipment: Temperature Monitoring System for monitoring of temperatures in grain silos and grain bulk storage, type listed in section 13

5 Manufacturer: Supertech Agroline

6 Address: Maltgørervej 7, 5471 Søndersø, Denmark

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0: 2018

EN 60079-11: 2012

EN 60079-31:2014

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, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 1 D Ex ia IIIC T150°C Da IP66

II 2 D Ex ib IIIC T85°C Db IP66

II 2 D Ex tb [ia] IIIC Gb [Ga] IP66

## Schedule

### 13 Description of Equipment or Protective System

The "Agrolog Temperature Monitoring System" makes it possible to measure, monitor and supervise temperature in grain silos and grain bulk storage. With a set of components, it is possible to connect the sensors into a digital network with a single point of access. The system can be managed by a PC with the Agrolog PC-software or by a portable handheld instrument. The software supervises automatically the temperature, moisture etc. in the silos and gives alarm if the thresholds goes above limit. With the portable instrument the temperature in the silos are supervised manually.

The "Sensor Lines" and the "Netlink" are designed as Intrinsically safe "iD" for mounting in Zone 20 and Zone 21. The "Netcontroller" and the separate "Safety Barrier" are designed as associated apparatus for mounting in Zone 21.

#### Type key:

The system consists of the following components:

Model	Type	Ex-marking
Agrolog Sensor Line	SL 3000/SL 5000/ SLM3000	II 1 D Ex ia IIIC T 150°C Da IP66
Agrolog Netlink	NL5000/NL6000	II 2 D Ex ib IIIC T 85°C Db IP66
Agrolog Netcontroller	NC 5000/NC6000	II 2 D Ex tb [ja] IIIC Gb [Ga] IP66
Agrolog Safety Barrier	SB 5000/ SB 6000	II 2 D Ex tb [ja] IIIC Gb [Ga] IP66

#### Technical data:

<b>Netcontroller</b> U <sub>o</sub> : 7,88V I <sub>o</sub> : 170 mA P <sub>o</sub> : 1,3 W C <sub>o</sub> : 114 µF L <sub>o</sub> : 5 mH L <sub>o</sub> /R <sub>o</sub> : 108 µH/Ω	<b>Safety Barrier:</b> U <sub>o</sub> : 7,88V I <sub>o</sub> : 214 mA P <sub>o</sub> : 0,84 W C <sub>o</sub> : 114 µF L <sub>o</sub> : 5 mH L <sub>o</sub> /R <sub>o</sub> : 337 µH/Ω
<b>Netlink</b> U <sub>i</sub> : 7,88V I <sub>i</sub> : 214 mA P <sub>i</sub> : 1,3 W C <sub>i</sub> : ~ 0 F L <sub>i</sub> : ~ 0 H	<b>Sensor Lines</b> U <sub>i</sub> : 7,88V I <sub>i</sub> : 214 mA P <sub>i</sub> : 1,3 W C <sub>i</sub> : ~ 0 F L <sub>i</sub> : ~ 0 H

#### Allowable ambient temperature range:

-20°C to +40°C

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
3868/A/1	17-02-2023	0	Initial issue of the Prime Certificate

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For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).

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## Schedule

### 14.2 Compliance Drawings:

#### Issue 0

Number	Date	Issue	Description
NC6000 Rev.01	2016-11-05	A	Agrolog Netcontroller
1525	2016-11-15	A	Artwork, Topside
1526	2016-11-15	A	Agrolog Netlink
NL6000 Rev.01	2016-11-05	A	Agrolog Netlink
1524	2015-08-06	-	Agrolog Safety Barrier
SB6000 rev.01	2015-06-10	01	Agrolog Safety Barrier
0707	2009-02-24	-	Temperature Sensor
SP3000/5000 Rev.01	2009-02-24	-	Agrolog Tem.Sensor
0748	2014-05-20	-	Termination Board
TP3000/5000 Rev.02	2014-05-20	-	Agrolog Temp.Sens.Termination
TP3000/5000 Rev.01	2007-10-04	-	Agrolog Temp.Sens.Termination
-	27-09-2021	1	Mini_fugt_sensor – SHT3x_V2.2
-	18-01-2022	1	Mini_fugt_sensor – SHT3x_V2.2

### 15 Conditions of Certification

#### 15.1 Special Conditions for Safe Use

Only suitable certified cable entries may be used.

All barriers must be subject to routine testing as outlined in EN 60079-11:2012 cl. 11.1.1

#### 15.2 Conditions for Use (Routine Tests)

### 16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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