

*The manufacturers declaration of conformity with the requirements on:
Equipment Intended for Use in Potentially Explosive Atmospheres (ATEX) Directive 2014/34/EU
Electromagnetic Compatibility (EMC) Directive 2014/30/EU*

1 Manufacturer

Liros Electronics i Malmö AB (VAT SE559035788401)
Högbergsgatan 27, SE-116 20 Stockholm / Murmansgatan 124A, SE-212 25 Malmö / SWEDEN.

2 Type of equipment

Part of the Grain Watch system for temperature monitoring in grain storage facilities.

3 Brand name and product No.

Brand name	Product No.
GWSL1100	Cable LA05 AA BBB + Holder LA09 CC 01 + Loop LA09 90 10 (AA=dm between sensors, BBB=length, CC; 02=well mount, 03=pipe mount, 05=short well mount). Loop is optional.
GWSL2100	Cable LA10 AA BBB + Holder LA19 CC 01 (AA=dm between sensors, BBB=length, CC; 01=loop, 02=well mount, 03=pipe mount, 04=pipe mount with loop, 05=short well mount)
GWML3100	Cable LAXX AA BBB + Holder LA19 CC 01 (AA=dm between sensors, BBB=length, CC; 02=well mount, 03=pipe mount, 04=pipe mount with loop, 05=short well mount, 06=loop)

4 Harmonized European standards which have been applied

Product-family / generic standards

Reference	Title
EN 60079-0:2012	Explosive atmospheres - Part 0: Equipment - General requirements
EN 60079-11:2012	Explosive atmospheres - Part 11: Protection by intrinsic safety "i"
EN/IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments.
EN 61000-6-3:2007 IEC 61000-6-3:2006	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission for residential, commercial and light-industrial environments.
EN/IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) – Limits: Limits for harmonic current emissions.
EN 61000-3-3:2013 IEC 61000-3-3:2017	Electromagnetic compatibility (EMC) – Limits: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16A per phase and not subject to conditional connection.
EN 61010-1:2010 IEC 61010-1:2017	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.

The equipment conforms completely with stated harmonized standards. The manufacturer declares under sole responsibility that the products to which this declaration relates to are in conformity with the essential requirements in the ATEX-directive and the EMC-directive.

Manufacturer:

Date	Signature	Title
2019-02-05		Head of Production

5 Additional information

Installation instructions

Doc. No.	Title
C183A, C184A, C185A	GWSL1100/2100/3100 Installation manual – SE, EN, DE

EU-type examination certificate

Report. No.	Marking
TÜV 10 ATEX 386498X	Ⓔ II 1D Ex ia T85°C
IECEX TUN 10.0013X	Ex ia IIIC T85°C
	-20°C ≤ Ta ≤ +50°C U: 5V U _i : 8V I _i : 300mA P _i : 500mW L _i : 0H L _i /R _i : 30µH/Ω
	GWSL1100/2100 – I: 3mA P: 15mW C _i : 90nF
	GWML3100 – I: 5mA P: 25mW C _i : 3.0µF

EMC Test report

Report. No.	Test report title
DANAK-198327, A503602-1	EMC immunity test of Grain Watch
DANAK-188351, A503602-2	EMC emission test of Grain Watch

The standard EN 61010-1:2010, published in the OJEC with reference to directive 2014/35/EU, has been used to fulfill 1.2.7 of Annex II of directive 2014/34/EU (ATEX) to eliminate electrical risks.