

**Bulk product  
level  
sensor DB-2  
DATASHEET**

Serial № S  
Date D

**EN**

## **1 GENERAL PRODUCT INFORMATION**

1.1 The sensor ESCORT DB-2 is designed to measure the bulk product fill level in various containers (including bins). It is designed to work with monitoring systems.

1.2 The sensor converts the calculated value into a digital code. Depending on the operation mode, it transmits the value as analog, frequency or digital signals.

**1.3 DO NOT DISASSEMBLE THE SENSOR!**

**1.4 DO NOT EXCEED THE OPERATING CHARACTERISTICS SPECIFIED IN THE CERTIFICATE!**

**1.5 PREVENT MECHANICAL DAMAGE OF THE SENSOR COMPONENTS, CONNECTING WIRES AND CABLES DURING INSTALLATION AND OPERATION.**

## 2 SPECIFICATIONS

<b>Parameter</b>	<b>Value / units</b>
Measured medium	grain, fertilizers, flour and other bulk products with a moisture content up to 25%
Measuring part length range	10-600 cm
Interfaces	digital (RS-485, protocol LLS), analog (0.5 to 4.9 V), frequency (300-1323 Hz)
Level measurement error at constant product moisture content	2%
Input current, up to	30 mA
Power supply voltage	9...36 V
Operating conditions: - ambient temperature - extreme ambient temperature - air pressure	- 40 ... + 50 °C - 60 ... +85 °C 84 ... 106.7 kPa
Dimensions, up to	40 x 80 x 80 mm

## 3 SCOPE OF DELIVERY

NAME	NBR	SER. No.	NOTES
Sensor ESCORT DB-2	1		
Set of mounting parts:	1		
Self-tapping screw 4,8 x 50 with washer	4		
Self-tapping screw 5.5 x 51 with washer for sealing	1		
Number plastic seal Siltech	1		
Sealing wire PP-N 0.8-600	1		
Number seal FAST-150	1		
Filter (Green)	1		
Jumper	1		
Anchor bolt 08x40 with nut	2		
Insulator	6		
Sensor tube	1		
Heat shrink tube 16/8 red	1		
Clamp	6		
Fuse block	1		
Fuse 1A	1		
Connecting cable	1		in electronic form
Manufacturer's Certificate	1		
Market container	1		

## **4 LIFE CYCLES, SERVICE AND SHELF LIFE, THE MANUFACTURER'S WARRANTY**

4.1 Guaranteed service life is 12 months from the date of shipping from the factory.

4.2 Service life - 5 years.

4.3 The manufacturer guarantees compliance of the sensor with specification requirements, provided that the operation, transportation and storage conditions are observed by the Customer.

4.4 Products with defects caused by the Customer's fault due to failure to observe the operation, transportation and storage conditions are not covered by the warranty.

4.5 The manufacturer reserves the right to change product design and scope of delivery without prior notice.

## **5 ACCEPTANCE CERTIFICATE**

Sensor ESCORT DB-2 is manufactured in accordance with the current technical documentation and qualified for operation.

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**6 PACKING CERTIFICATE**

Sensor ESCORT DB-2 is packed in accordance with the current technical documentation.

**7 INSTALLATION CERTIFICATE**

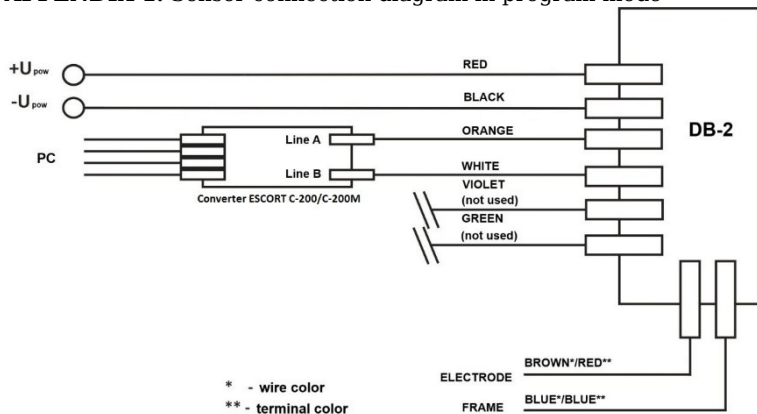
Sensor ESCORT DB-2 ser. No. S D is installed on the equipment:

_____		_____
name		identification number
_____	/	_____
signature		Full Name
		day, month, year
_____		
remarks		
_____		

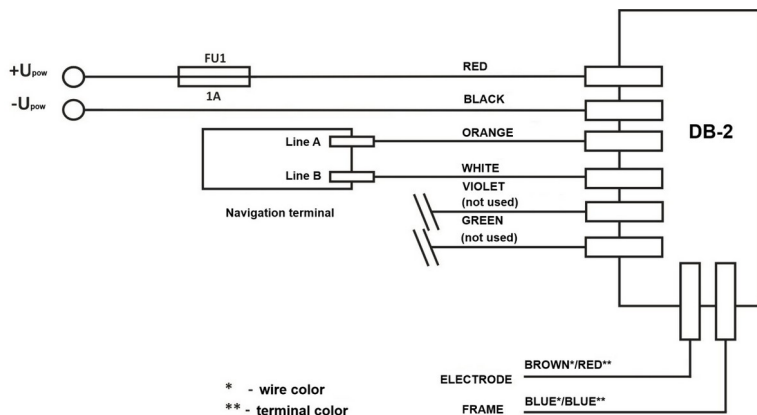
**8 DISPOSAL**

The instrument does not contain precious metals in the amounts to be recorded.

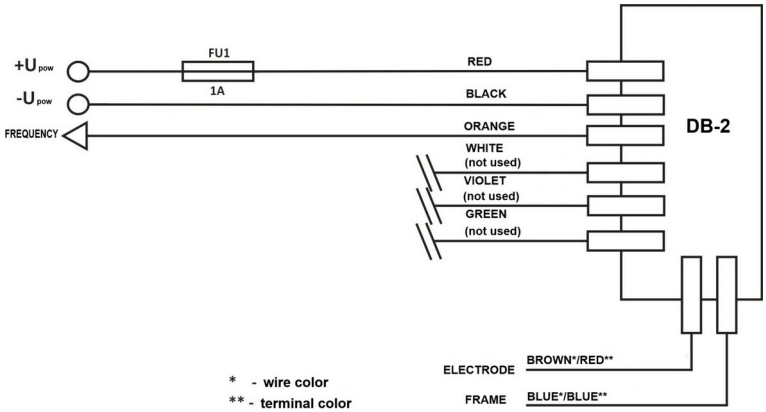
## APPENDIX 1. Sensor connection diagram in program mode



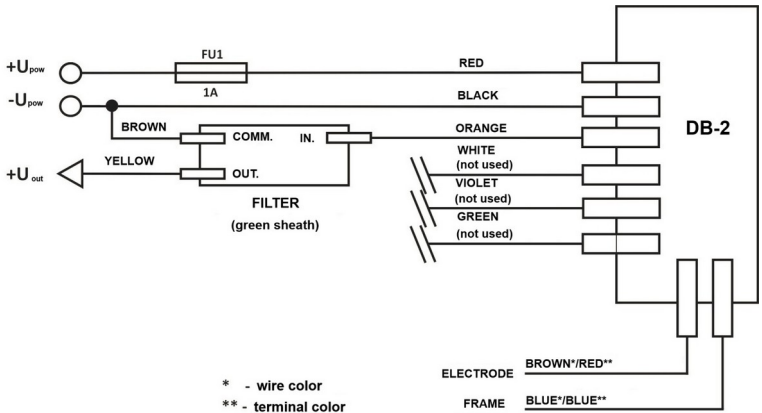
## APPENDIX 2. Sensor connection diagram in RS-485 mode



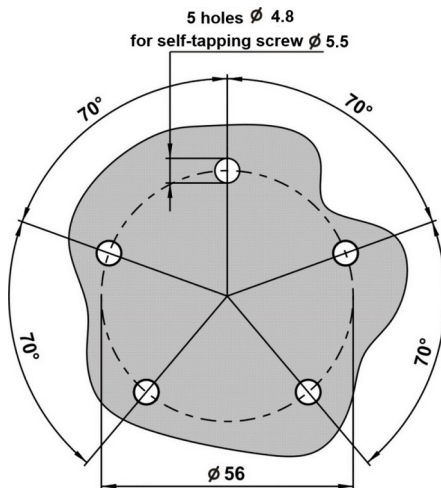
### APPENDIX 3. Sensor connection diagram in frequency mode



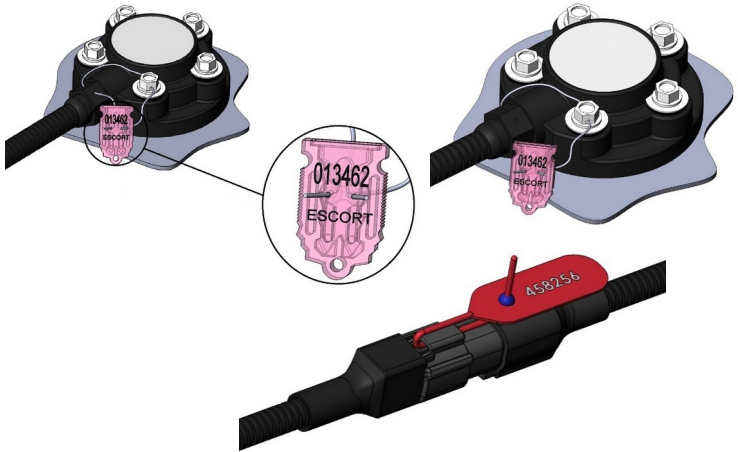
### APPENDIX 4. Sensor connection diagram in analog mode



APPENDIX 5. Sensor installation dimensions



**APPENDIX 6. Sensor head and cable connection sealing methods**



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For notes