

INSTRUCTION MANUAL

SI 301 - SI 3013

CONDUCTIVITY CELL

SI 301 cell constant: $K=1$

Body material: PVC

SI 3013 cell constant: $K=1$

Body material: Polypropylene



SI 301



SI 3013

Cod. 28011301 - Rev. C - 01/19

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1 SPECIFICATIONS

SI 301

| | |
|----------------|-----------------------------|
| Installation: | in line |
| Sensors: | 2 electrodes in 316 s.steel |
| Cell constant: | K=1 |
| Temperature: | 60 °C max |
| Pressure: | 5 BAR max at 20 °C |
| Length: | 97 mm |
| Diameter: | 34 mm |
| Body: | PVC |
| Thread: | 1" BSP |

SI 3013

| | |
|----------------|-----------------------------|
| Installation: | in line |
| Sensors: | 2 electrodes in 316 s.steel |
| Cell constant: | K=1 |
| Temperature: | 100 °C max |
| Pressure: | 5 BAR max at 20 °C |
| Length: | 97 mm |
| Diameter: | 34 mm |
| Body: | Polypropylene |
| Thread: | 1" BSP |

2 INSTALLATION

The conductivity cell must be mounted properly if the system is to operate accurately and efficiently.

It must meet the following requirements:

- the sample in the cell must be representative of the whole solution;
- the sample must circulate continuously through the cell;
- the flow velocity in the cell must not be so high as to cause cavitations;
- the position and orientation of the cell must not trap air-bubbles near the electrodes area;
- sediments must not accumulate within the electrode area;
- in the immersion installations the water must be continuously stirred;

Keep the cable away from power wires on the overall length.

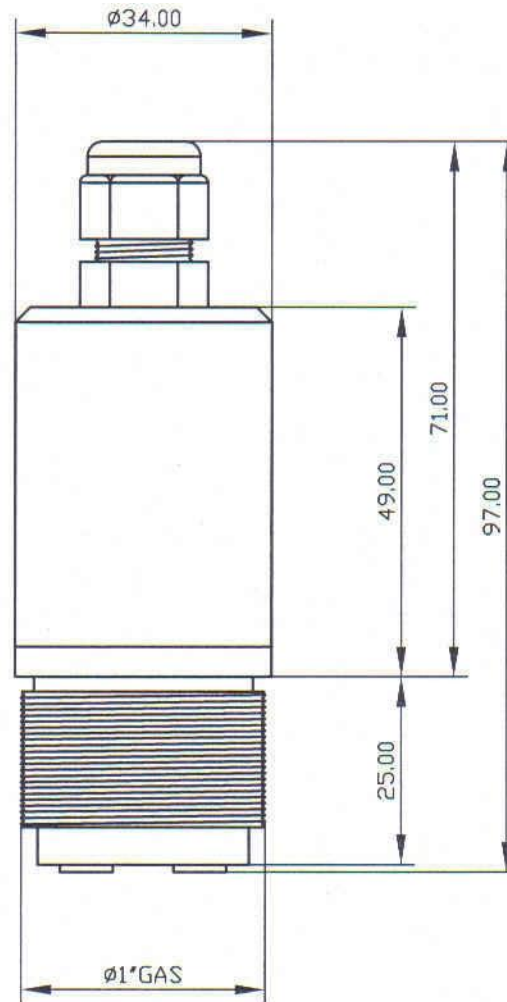
The cable must not be interrupted on overall length.

If interruption is necessary, the extension cable must be fastened to the high insulation terminal strip.

3 MAINTENANCE

The state of the electrodes surface is critical for the normal operation of the system and should be inspected more frequently when using alkaline liquids, oil and grease containing water, and bio-applications.

DIMENSIONS
(measures in mm)



SI301-SI3013 rev.A – A4 – 1:1

Fig.1

WARRANTY CERTIFICATE

1) Your product is covered by B&C Electronics Warranty for 5 years (sensing element excluded) from the date of shipment.

In order for this Warranty to be valid, the Manufacturer must determine that the instrument failed due to defective materials or workmanship.

2) The Warranty is void if the product has been subject to misuse and abuse, or if the damage is caused by a faulty installation or maintenance.

3) The Warranty includes the repair of the instrument at no charge. All repairs will be completed at the Manufacturer's facilities in Carnate, Italy.

4) B&C Electronics assumes no liability for consequential damages of any kind, and the buyer by accepting this equipment will assume all liability for the consequences of its use by the Customer, his employees, or others.

REPAIRS

1) In order to efficiently solve your problem, we suggest You to ship the instrument along with the Technical Support's Data Sheet (following page) and a Repair Order.

2) The estimate, if requested by the Customer, is free of charge when it is followed by the Customer confirmation for repair. As opposite, if the Customer shall not decide to have the instrument repaired, he will be charged to cover labor and other expenses needed.

3) All instruments that need to be repaired must be shipped pre-paid to B&C Electronics. All other expenses that have not been previously discussed will be charged to Customer.

4) Our Sales Dept. will contact You to inform You about the estimate or to offer you an alternative, in particular when:

- the repairing cost is too high compared to the cost of a new instrument,
- the repairing results being technically impossible or unreliable

5) In order to quickly return the repaired instrument, unless differently required by the Customer, the shipment will be freight collect and through the Customer's usual forwarder.

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TECHNICAL SUPPORT

Data sheet

In case of damage, we suggest You to contact our Technical Support by email or phone. If it is necessary for the instrument to be repaired, we recommend to photocopy and fill out this data sheet to be sent along with the instrument, so to help us identifying the problem and therefore accelerate the repairing process.

ESTIMATE

REPAIR

COMPANY NAME

ADDRESS

ZIP

CITY

REFER TO MR./MISS.

PHONE

MODEL

S/N

DATE

Please check the operator’s manual to better identify the area where the problem seems to be and please provide a brief description of the damage:

SENSOR

ANALOG OUTPUT

POWER SUPPLY

SET POINT

CALIBRATION

RELAY CONTACTS

DISPLAY

PERIODICAL MALFUNCTIONING

➤ *DESCRIPTION*

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