

Graphite Conductivity Probe

OVERVIEW

The Etatron conductivity cell has a PTFE body and two graphite electrodes. With a wide conductivity range of 0 – 100 °C it is suitable for industrial and laboratory processes. All probes can be supplied with additional PT100 temperature integrated sensor for measure compensation.

Conductivity probes of this kind can be found in water treatment, surface treatment, metal plating, cooling towers, wash processes, galvanising and many others where conductivity is a significant parameter.



TECHNICAL FEATURES

- Cell constant K = 0.6 cm
- Measuring range 0 -100 mS
- Cell Body PTFE
- Measuring Electrodes 2 graphite
- Operating temperature -5 to 100 °C
- Temperature compensation Yes, with PT100 build option
- Dimensions 12 mm diameter, 120 mm length
- Minimum immersion depth 25 mm
- Cable 5 m (can be altered by special order)

CODE

Model	
ASOC	Conductivity Cell
Features	
4111	K = 0.6 cm, PTFE body, graphite electrodes, 5m cable
Temperature sensor	
00	With PT100
11	Without PT100
ASOC411100	CD cell; K = 0.6 cm, PTFE

Dimensions in mm unless indicated.

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Etatron GB Ltd
Etatron GB Ltd, Newlin Business Park, Exchange Road, Lincoln LN6 3AB
Phone: +44 (0)1522 852397
e-mail: sales@etatron.co.uk – web: www.etatron.co.uk

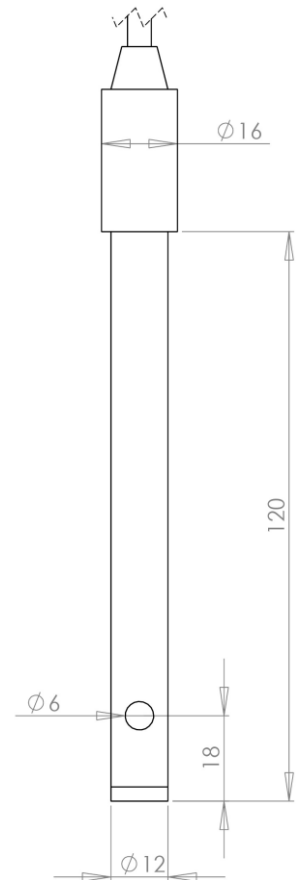
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INSTALLATION, MAINTENANCE AND CALIBRATION

The cells should be installed at a minimum immersion depth of 25 mm, and this should not be subject to change. The sample flow should be directed against the cell bottom so that the liquid entering the cell can flow upwards and exit from the upper hole, this prevents trapped air bubbles. These cells should not be installed in locations with high turbulence.

The cell K correction is performed at start up. Insert the cell in a solution with known conductivity and calibrate the slope to obtain the correct reading (the controller should read the calibration solution conductivity value) or, in the controllers provided with this option, insert the known value of the cell constant (it is indicated on the cell data tag).

The electrode can be cleaned with a brush, water, with dilute acid or detergent.



Wiring, cell without temperature sensor

The cell has two wires, brown and blue. Connect them to your controller terminals reserved for the conductivity cell.

Wiring, cell with temperature sensor

COLOR	ELEMENT
RED + BLUE	Pt 100
GREEN	Pt 100
WHITE	CELL
BLACK	CELL
SHIELD	GROUND

COLOR	ELEMENT
RED + BLUE	Pt 100
YELLOW + GREEN	Pt 100
WHITE	CELL
BLACK	CELL
SHIELD	GROUND

