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 other processes where conductivity is a significant parameter.

TECHNICAL FEATURES

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

CODE

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

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ASOC411100	CD cell; K=0.6cm, PTFE

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).

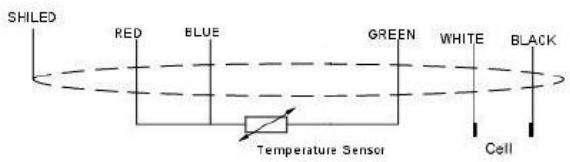
The electrode can be cleaned with a brush, water, with dilute acid or detergent.

Wiring: Cell without temperature sensor

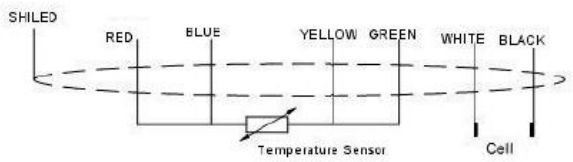
The cell has two wires, brown and blue. Connect them to your controller terminals reserved for the conductivity cell.

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



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