

## Conductivity / TDS / Resistivity Sensors



### Features & Benefits

The Potence Controls Contacting Conductivity sensors are manufactured using high quality, rugged materials for demanding applications including Ultrapure Water, Clean-in-place (CIP), and Boiler/Condensate Monitoring. Also, each sensor has a Pt100 or Pt1000 RTD Temperature element built into its tip for exceptionally fast response to changes in temperature with  $\pm 0.1^{\circ}\text{C}$  accuracy

The Model PC1/PC2 Series SS body sensors are designed for Ultrapure Water and Pure Water applications as well as for high pressure and high temperature applications. These sensors are especially convenient for direct boiler wall installations.

The Model PC3 Series CIP - ready enhanced performance Contacting Conductivity sensors are designed for direct mounting into process using CIP type fittings

## General Specifications

	<b>PC1/PC2 Series SS/Titanium Body Conductivity Sensors</b>	<b>PC3 Series SS Body Tri Clamp Conductivity Sensors</b>
Wetted Material	316 Stainless Steel, Teflon Insulator Titanium	316 Stainless Steel, Teflon Insulator
Cell Constant	0.01; 0.1; 1.0; 10.0	0.01; 0.1; 1.0
Range	Refer below table for different controllers	Refer below table for different controllers
Temp. Element	Pt 100 / Pt 1000	Pt 100 / Pt 1000
Temperature Pressure Limit	100 °C, 140 psig, refer note	100 °C, 140 psig
Sensor Mounting Style	¾" NPTM	1" Triclamp / 1.5" Triclamp / 2" Triclamp
Standard Cable length	20 Feet (6 Meter)	20 Feet (6 Meter)

Note: For Higher Temperature and Pressure Range please contact Potence Controls

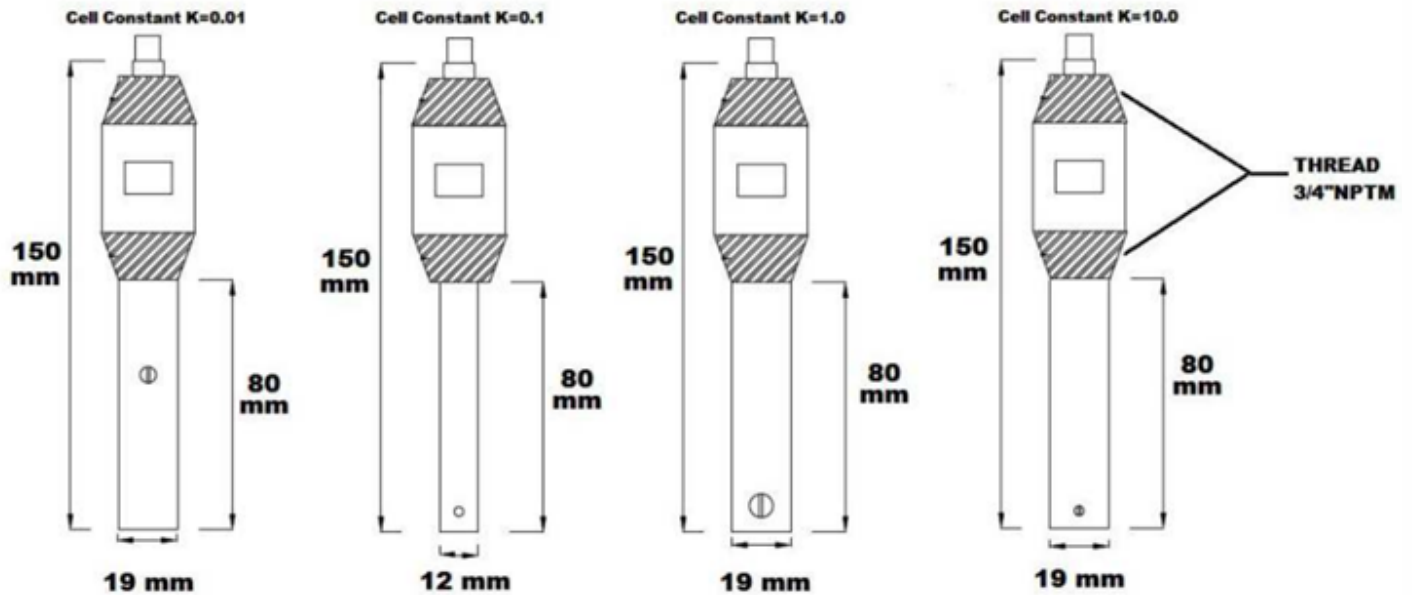
# General Specifications

## PC1 or PC2 or PC3 SERIES CONDUCTIVITY SENSORS MEASUREMENT RANGE

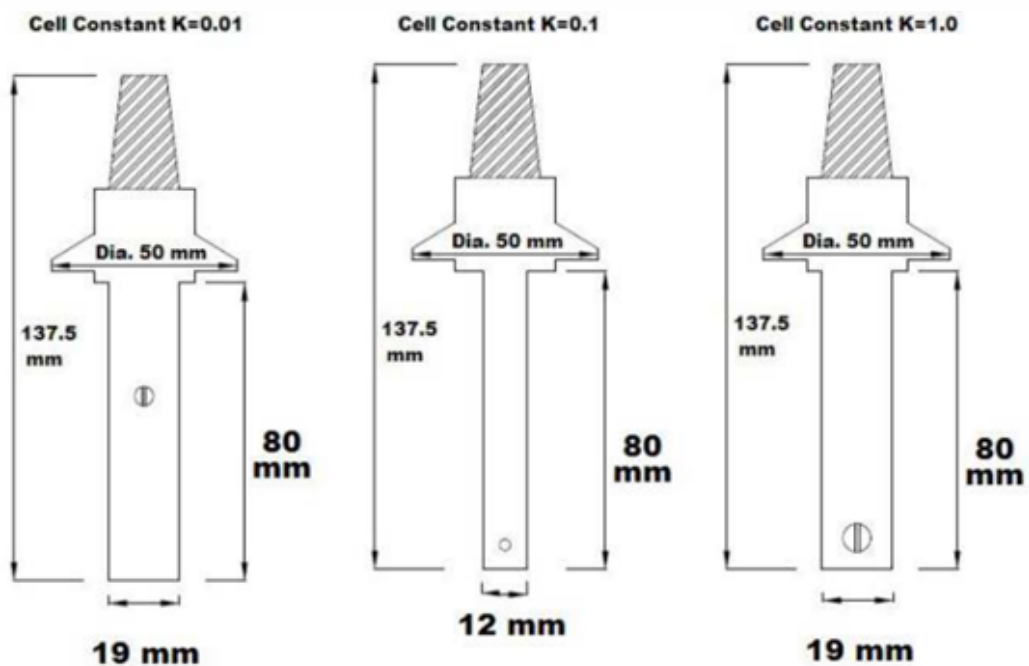
PC1/PC2/ PC3 Series Conductivity Sensors	PC1000/PC2000 Controller Measurement Range with PC1/PC2/PC3 Series Cond. Sensors		PCCON100 Transmitter Measurement Range with PC1/PC2/PC3 series Cond. Sensors	PCCON105 Transmitter Measurement Range with PC1/PC2/PC3 Series Cond. Sensors	
	Cell Constant	Conductivity	TDS	Conductivity	Conductivity
0.01	0.00 to 20.00 μS/cm	0.00 to 10.00 ppm	Not Supported	0.0 to 200.0 μS/cm	0 to 100 ppm
0.1	0.00 to 20.00 μS/cm OR 0.00 to 200.0 μS/cm	0.0 to 100.0 ppm	0 to 1999 μS/cm (Select Range in Transmitter R1/R2/R3)	0 to 2000 μS/cm	0 to 1000 ppm
1.0	0.00 to 20.00 μS/cm OR 0.00 to 200.0 μS/cm OR 0 to 2000 μS/cm	0 to 1000 ppm	0 to 19.99 mS/cm (Select Range in Transmitter R1/R2/R3/R4/R5)	0 to 20,000 μS/cm	0 to 10,000 ppm
10	0.00 to 20.00 μS/cm OR 0.00 to 200.0 μS/cm OR 0 to 2000 μS/cm OR 0.00 to 20.00 mS/cm	0.00 to 10.00 ppt	0 to 199.9 mS/cm (Select Range in Transmitter R2/R3/R4/R5/R6)	0.0 to 200.0 mS/cm	0 to 1,00,000 ppm

# Dimensional Drawing

## PC1/PC2 Series Conductivity Sensors



## PC3 Series Conductivity Sensors



# Ordering Information

**Model Number:**

- PC 1 : SS Body conductivity Sensors
- PC 2 : Titanium Body Conductivity Sensors
- PC 3 : Sanitary Flange Mounting Type Conductivity Sensors

**Cell Constant (K) :**

- A = 0.01
- B = 0.1
- C = 1
- D = 10

**Temperature Element:**

- 1: PT100
- 2: PT1000

**Sensor Mounting Style :**

- B : 3/4" NPTM (PC1 & PC2 Series only)
- C : 1" Triclamp (PC3 Series only)
- D : 1.5" Triclamp (PC3 Series Only)
- E : 2" Triclamp (PC3 Series Only)

**Cable (In Feet) :**

- 20 : Standard 20 Feet
- XX : Mention Cable Length

**Temperature Rating :**

- HT : Maximum 200°C  
(PC1 and PC2 series only)

## Consider our Conductivity Controllers



In the interest of improving and updating, PCPL reserves the right to alter specifications at any time.