

CS3790-64-IB

Electromagnetic Conductivity Sensor



- Based on the annular no electrode principle, no polarization phenomenon
- PFA material, Resistant to highly corrosive chemicals
- Wide range & high precision measurement
- Designed for on-line measurement of conductivity/
concentration of acids, bases and salts in liquid media, mainly for
the chemical industry (CPI). Pulp and paper industry and waste
liquid monitoring.

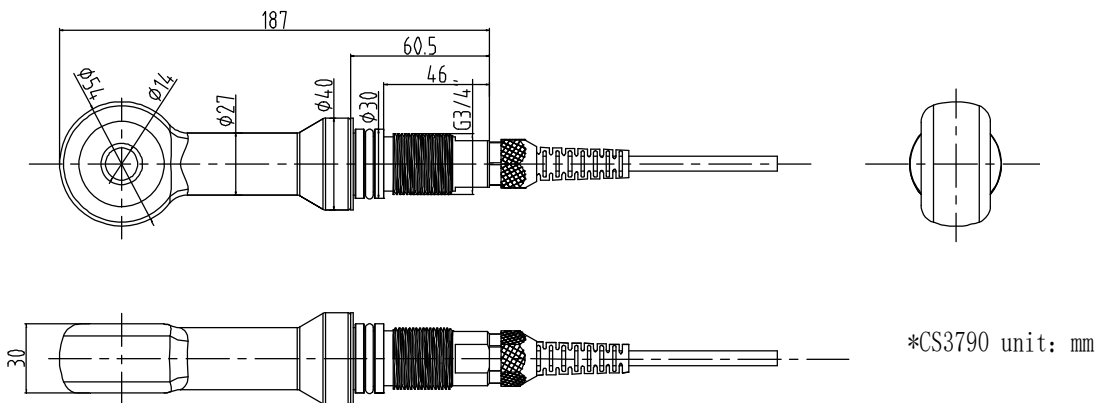
(Sensor Specifications)

Model :	CS3790
Cell constant:	2.7
Measurement range:	0 -2000mS/cm
Temperature compensation:	PT 1000
Operation temperature:	-20°C- +130°C
Response time:	10min
Pressure Range:	≤16 bar
Minimum immersion depth:	54mm
Mounting thread:	G 3/4"
Cable length:	10 meter

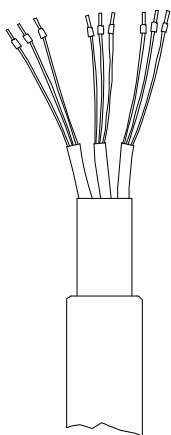
(Sensor materials)

Sensor materials:	PFA
Fixed joint material:	SUS316L
Sealing gasket material:	PTFE
O-ring material:	FEP+Viton
Fixed nut material:	SUS316L

(sensor dimensions)



CS3790 (Wiring illustration)



Description	Heat-shrink tube color	Wire color	Wire description
(Drive)	(Red)	(Red)	Drive — H
		(Brown)	Drive — L
		(Clear)	Drive SHIELD
(Receive)	(Black)	(Orange)	Receive— H
		(Black)	Rreceive— L
		(Clear)	Receive SHIELD
(Temp)	(Green)	(Yellow)	PT1K RTD-A
		(Green)	PT1K RTD-B
		(Clear)	PT1K RTD-B

Mounting of sensor)

1.Flange mounted

		<p>!</p> <ol style="list-style-type: none"> 1.The center hole of the sensor shall be installed in the pipeline in line with the direction of water flow (as shown in the left picture above). 2.The submerged depth of the sensor should be greater than 54mm, and the outer distance from the inner wall of the sensor to the surrounding distance T should be greater than 30mm (the inner diameter of the pipeline should be more than 114mm). 3.Installation flange specifications: DN50 or above (customers choose according to the site conditions).
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Recommended)	(Not recommended)	
	<p>The sensor is not sufficiently immersed in water.</p>	<p>Solid impurities precipitate, affecting the measured value.</p>

<p>Schematic diagram of flange installation steps</p> <ol style="list-style-type: none"> 1. CS3790 2. 5419059 Teflon Gaskets 3. 5420048 FEP Seal ring 4. Flange gasket (Non standard) 5. DN50 flange (Non standard) 6. 5329003 G3/4" Hex nut 	<p>DN50 PL16 Dimensions</p>
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2. Tee direct installation

! This mounting method is used for direct mounting to a tee with at least 2" screw thread.

Install fittings

- 1. CS3790
- 2. 5419061 (2"-3/4")

Direct installation of tee adapter

- 3. 5329003 G3/4" Hex nut

3. (Immersion installation)

Installation Steps

Install fittings:

- 1、 CS3790
- 2、 5419060 Immersion mounting adapter (1"-3/4")
- 3、 5420058 O-ring (Φ26*3.5)
- 4、 7202-D0100 DO Protective tube 1M
- 5、 Circular junction box