



Conductivity Sensors Series CDE680

Contacting Conductivity Probes for Use with CDTX680 Series Transmitters and CDCN684, CDCN685, and CDCN686 Series Controllers

Common Specifications

Flow Rate: 0 to 3 m (0 to 10') per second (fully immersed)
Temperature Compensator: Pt1000 RTD
Sensor Cable Integral (No Junction Box): 6-wire cable (4 conductors and 2 isolated shield wires); 6 m (20') long

CDE681 Compression Fitting Style Sensor

Designed for ultra-pure-water and pure-water applications, these small, enhanced-performance contacting conductivity sensors provide the required absolute cell (K) constant accuracy, and ultra-fast-acting temperature compensation. Materials of construction extend sensor operating life, with no degradation in measurement reliability.

Wetted parts—titanium electrodes, PTFE insulator, and treated Viton® O-ring seals

CDE682 Non-Metallic General Purpose Sensors

CDE682 Series graphite electrode sensors are low-cost and offer advanced features. They are designed for general purpose measuring applications that require a non-metallic sensor. Their Ryton® body is compatible with most acidic, basic, and salty solutions.

Wetted parts—graphite electrodes, Ryton® body, and Viton® O-ring seals

CDE683 Boiler Condensate Sensor

The CDE683 enhanced-performance contacting conductivity sensors are designed for high-temperature and high-pressure applications. They are especially convenient for direct boiler wall installations. They have 316 SS electrodes and a 3/4 MNPT threaded 316 SS body.

Wetted parts—316 SS and titanium electrodes, PEEK insulator, and fluoroelastomer O-ring seals

CDE684 Series Sanitary (CIP) Flange Conductivity Sensors

These CIP-ready, enhanced-performance contacting conductivity sensors are designed for direct mounting into processes using CIP type fittings. Possible applications include foods, pharmaceuticals, high-purity water, reverse osmosis, and waste treatment.

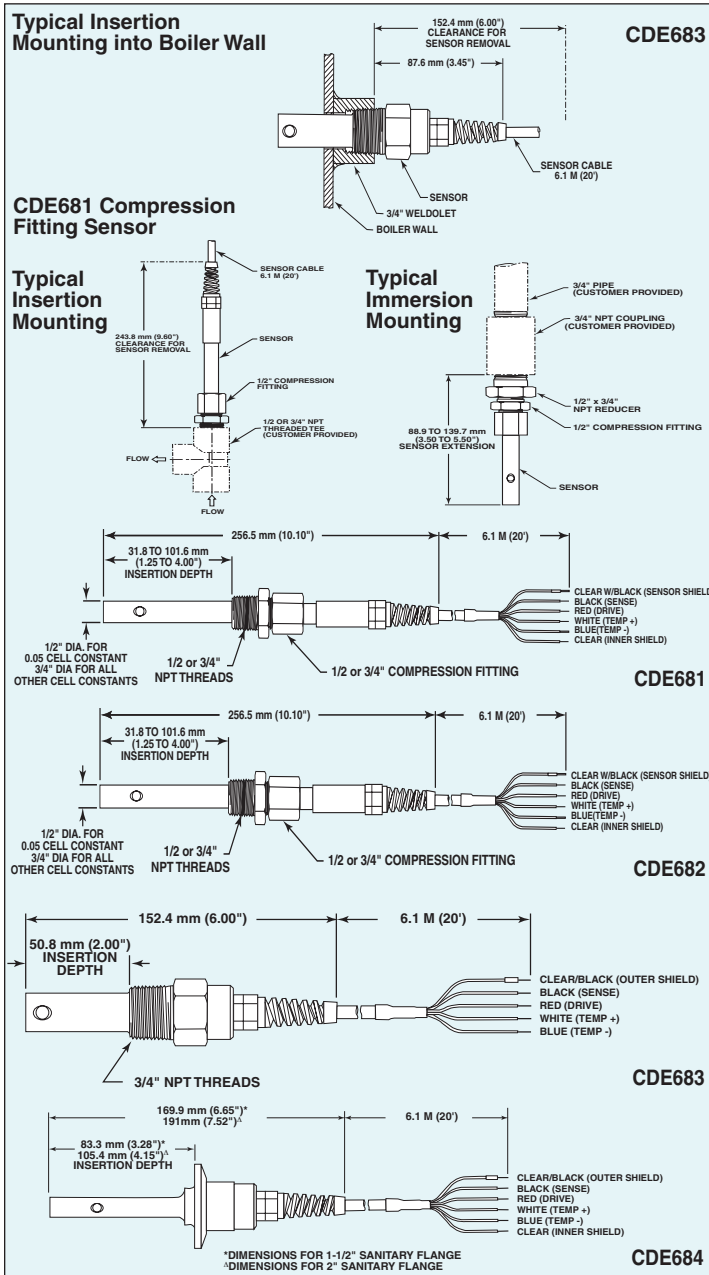
Wetted parts—316 SS electrodes, PTFE insulator, and O-ring seals

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)					
Model No.	Price	Cell Constant	Compression Fitting		Temperature/Pressure Limits
			Material	Thread	
CDE681-D-K	\$300	5.0	Kynar®	¾ NPT	When ordered with Kynar® (PVDF) compression fitting: 150°C @ 1.7 bar (302°F @ psi) or 36°C @ 10.3 bar (97°F @ 150 psi) When ordered with 316 SS compression fitting: 150°C @ 13.7 bar (302°F @ 200 psi)
CDE681-D-S	375		316 SS		
CDE681-E-S	375		316 SS		

To Order (Specify Model Number)				
Model No.	Price	Cell Constant	Threaded Connector	Temperature Pressure Rating
CDE682-B	\$200	0.5	¾ NPT	150°C at 6.8 bar (302°F at 100 psi)

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To Order (Specify Model Number)				
Model No.	Price	Cell Constant	Max Temp/Pressure	Junction Box
CDE683-B-JS	\$425	0.5	200°C at 20.7 bar (392°F at 300 psi)	316 SS
CDE683-D-JS	425	5.0	200°C at 20.7 bar (392°F at 300 psi)	316 SS

To Order (Specify Model Number)				
Model No.	Price	Cell Constant	Flange Size (in)	Temp/Pressure Ratings
CDE684-A-1	\$400	0.05	½	125°C at 10.3 bar (257°F at 150 psi)



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

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• Heaters

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