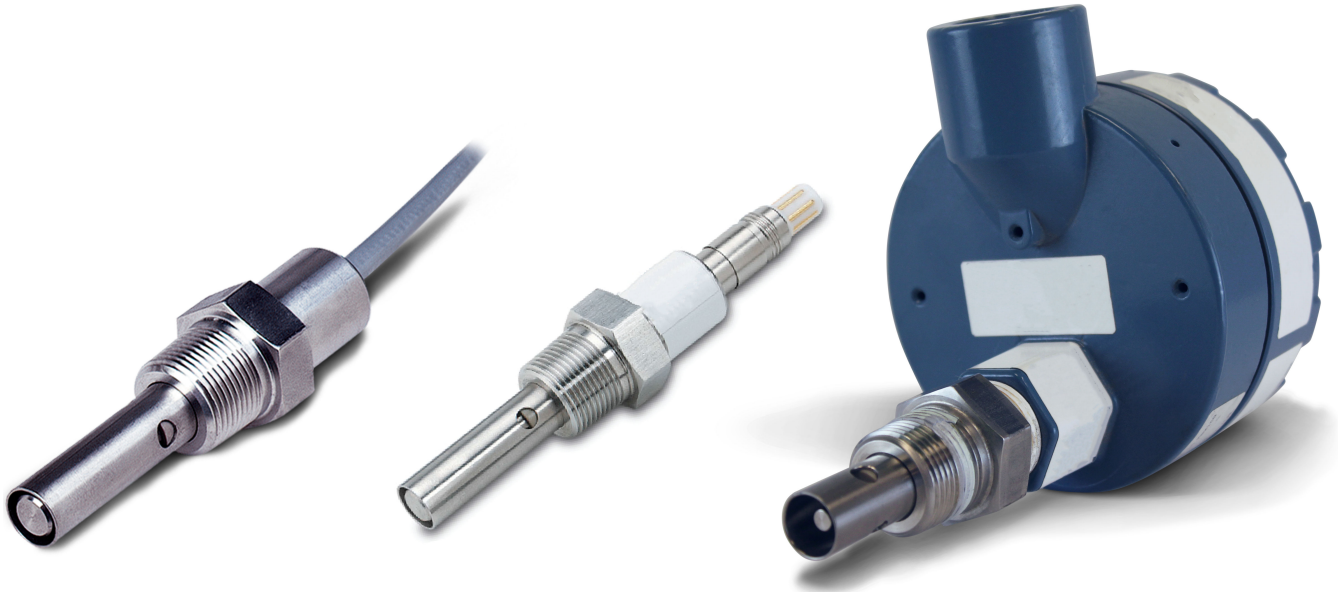


Rosemount™ 400 and 400VP

Contacting Conductivity Sensors

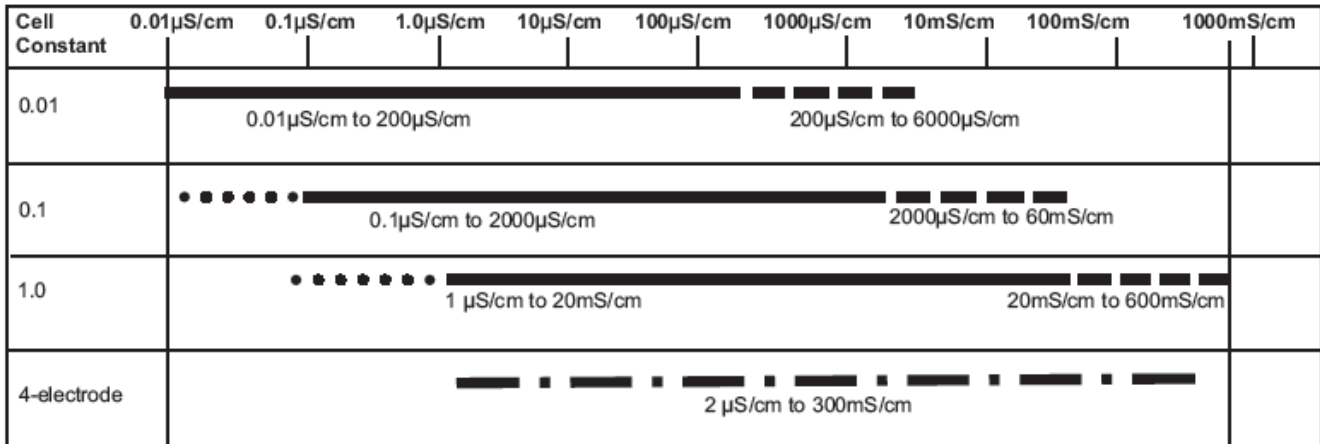


Reliable conductivity measurements for your process

With Rosemount 400 and 400VP contacting conductivity sensors, you can accurately measure electrolytic conductivity in a broad range of applications from high purity water to clean cooling water. These sensors are ideal for use in clean, non-corrosive liquid having conductivity less than 20,000 $\mu\text{S}/\text{cm}$.

Figure 1: Recommended Range - Contacting Conductivity

Performance Specifications Recommended Range – Contacting Conductivity



Cell Constant Linearity

	$\pm 0.6\%$ of reading in recommended range
	+2 to -10% of reading outside high recommended range
	$\pm 5\%$ of reading outside low recommended range
	$\pm 4\%$ of reading in recommended range

Table 1: Weights and Shipping Weights

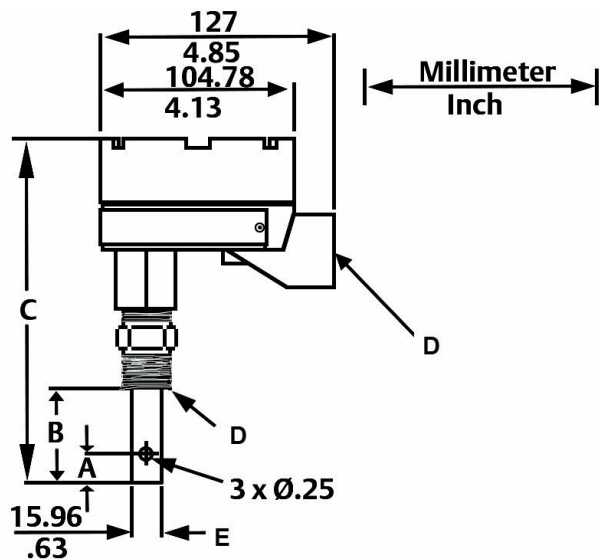
Rounded up to the nearest 1 lb. or 0.5 kg.

Sensor	Weight	Shipping weight
Rosemount 400 with 10-ft. integral cable	1 lb. (0.5 kg)	2 lb. (1.0 kg)
Rosemount 400 with 50-ft. integral cable	4 lb. (2.0 kg)	5 lb. (2.5 kg)
Rosemount 400VP with Variopol cable connection	1 lb. (0.5 kg)	2 lb. (1.0 kg)
Rosemount 400 with integral junction box	3 lb. (1.5 kg)	4 lb. (2.0 kg)

Figure 2: Flow Cell



Figure 4: Rosemount 400 with Integral Junction Box Dimensional Drawing



- A. Dimension (see Table 4)
- B. Dimension (see Table 4)
- C. Dimension (see Table 4)
- D. 3/4-in.-14 NPT
- E. Equally spaced

Table 4: Rosemount 400 with Integral Junction Box Dimensions

Sensor configuration	A		B		C	
	in.	mm	in.	mm	in.	mm
0.01/cm	1.59	40.39	1.98	50.34	7.41	188.2
0.1/cm	0.687	17.45	1.11	28.15	6.49	164.9
1.0/cm	0.667	16.94	1.13	28.70	6.51	165.4
0.01/cm (with extended insertion length)	1.59	40.39	5.49	139.4	10.90	276.9
0.1/cm (with extended insertion length)	0.687	17.45	5.49	139.4	10.90	276.9
1.0/cm (with extended insertion length)	0.667	16.94	5.49	139.4	10.90	276.9