

Two-electrode conductivity sensor for the continuous measurement in water/steam cycle applications with retractable wet-tap valve.

Swansensor Retracon, retractable sensor with wet-tap valve

Conductivity sensor with stainless steel body, stainless steel electrode and built-in temperature probe for automatic temperature compensation.

Specifications

Recommended measuring range:

0.055 $\mu\text{S/cm}$ to 1'000 $\mu\text{S/cm}$ (for $K=0.05$)
0.05 $\mu\text{S/cm}$ to 60 mS/cm (for $K=10.0$)

Accuracy (at 25°C): $\pm 1\%$ or 0.02 $\mu\text{S/cm}$
whichever is greater

Cell constant: $\sim 0.05 \text{ cm}^{-1}$ for low conductivity
 $\sim 10.0 \text{ cm}^{-1}$ for high conductivity

Temperature sensor type: Pt1000

Operating conditions:

- Continuous temperature: 150 °C
- Pressure: max. 3.4 bar

Materials in contact with sample:

- Electrode: Stainless steel SS 316L
- Insulator: Teflon

Process connection: 1" NPT for valve or
DN25 flange SS316

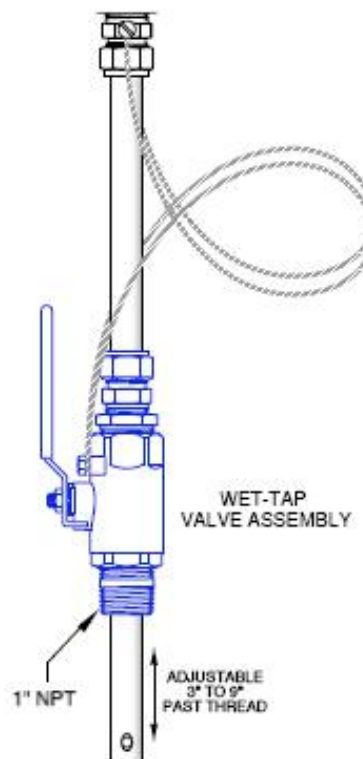
Dimensions*:

- Total length: $\sim 420\text{mm}$
- Insertion length: ~ 76 to 228mm past thread
- Sensor diameter: 19mm
*: Dimension can vary.

Restriction of use:
only for use with AMI or AMU Powercon transmitter.

Electrical connection:

- stripped and tinned 24 gauge ends



Connection scheme to AMI Powercon:

Terminal	Cable color	Function
19	BLK	Inner Electrode
20	WHT & Clear	Outer Electrode & Shield
21	RED	PT1000
22	GRN	PT1000

Order scheme	Swansensor Retracon	A – 87 . 381 .			
			↑	↑	↑
Cell constant	0.05 cm^{-1} for low conductivity	3			
	10.0 cm^{-1} for high conductivity	8			
Cable length	None, without cable	0			
	Cable 10 Feet (~ 3 meter)	1			
	Cable 20 Feet (~ 6 meter)	5			
	Cable 50 Feet (~ 15 meter)	7			
	Cable 100 Feet (~ 30 meter)	9			
Process Connection	1" NPT thread				0
	DN25 flange, SS316				1

Two-electrode conductivity sensor for the continuous measurement in water/steam cycle applications with retractable wet-tap valve.

Swansensor RetraconHP, high pressure, retractable sensor with wet-tap valve

Conductivity sensor with stainless steel body, stainless steel electrode and built-in temperature probe for automatic temperature compensation.

Specifications

Recommended measuring range:

0.055 $\mu\text{S/cm}$ to 1'000 $\mu\text{S/cm}$ (for $K=0.05$)
0.05 $\mu\text{S/cm}$ to 60 mS/cm (for $K=10.0$)

Accuracy (at 25°C): $\pm 1\%$ or 0.02 $\mu\text{S/cm}$
whichever is greater

Cell constant: $\sim 0.05 \text{ cm}^{-1}$ for low conductivity
 $\sim 10.0 \text{ cm}^{-1}$ for high conductivity

Temperature sensor type: Pt1000

Operating conditions:

- Continuous temperature: 120 °C
- Pressure: max. 12 bar

Materials in contact with sample:

- Electrode: Stainless steel SS 316L
- Insulator: Teflon

Process connection: $\frac{3}{4}$ " NPT for valve or
DN25 flange SS316

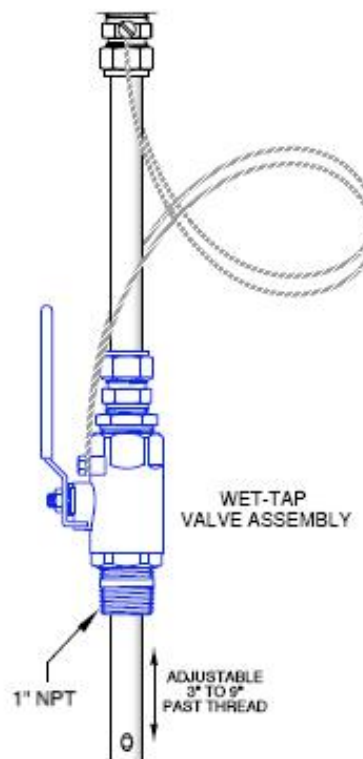
Dimensions:

- Total length: $\sim 420\text{mm}$
- Insertion length: 76 to 228mm past thread
- Sensor diameter: 12.7mm
*: Dimension can vary.

Restriction of use:
only for use with AMI or AMU Powercon transmitter.

Electrical connection:

- stripped and tinned 24 gauge ends



Connection scheme to AMI Powercon:

Terminal	Cable color	Function
19	BLK	Inner Electrode
20	WHT & Clear	Outer Electrode & Shield
21	RED	PT1000
22	GRN	PT1000

Order scheme	Swansensor RetraconHP	A – 87 . 382 .			
			↑	↑	↑
Cell constant	0.05 cm^{-1} for low conductivity	3			
	10.0 cm^{-1} for high conductivity	8			
Cable length	None, without cable	0			
	Cable 10 Feet (~3 meter)	1			
	Cable 20 Feet (~6 meter)	5			
	Cable 50 Feet (~15 meter)	7			
	Cable 100 Feet (~30 meter)	9			
Process Connection	$\frac{3}{4}$ " NPT thread				0
	DN25 flange, SS316				1