ELECTRO - CHEMICAL DEVICES, INC.

23665 Via Del Rio, Yorba Linda, CA 92687 USA

SPECIFICATION SUMMARY CS10/17 & RS10/17 CONDUCTIVITY & RESISTIVITY SENSOR for Model T23 Transmitter

MEASUREMENT RANGE

3 basic ranges:

- 1) Low range Conductivity: 1 μ S through 50 μ S.
- High range Conductivity: 100 µS through 20 mS. 2)
- 3) Resistivity: 2 M Ω through 50 M Ω .

OUTPUT

Signal conditioned output, intrinsically-safe.

SIGNAL CONDITIONER:

Integral to sensor. Three types available: T23: Models T23, T28, & T21 transmitter C22: System C22 Controller

POWER SUPPLY

Provided by the transmitter.

OPERATING TEMPERATURE

Standard:	+23°F to +212°F (-5°C to +100°C)
Optional:1	+302 ^o F (+150 ^o C)

OPERATING PRESSURE

Standard CS10 & RS10:	100 psig @ 100 ⁰ C
Optional CS10 & RS10: ²	300 psig @ 150 ⁰ C
Standard CS17 & RS17:	300 psig @ 100 ⁰ C
Optional CS17 & RS17: ²	300 psig @ 150 ⁰ C

DIMENSIONS

CS10 & RS10:	0.75" dia x 13.75" lg.
	(1.9 cm x 34.9 cm)
CS17 & RS17:	0.75" dia x 19.00" lg.
	(1.9 cm x 48.3 cm)

Dimensions are housing diameter x length of sensor. Length is measured from front of seal guard to rear of strain relief.

SHIPPING WEIGHT

HOUSING & MATERIALS		
with VSS:	5.80 lbs (2.63 kgs)	
CS17 & RS17		
without VSS:	2.75 lbs (1.25 kgs)	
CS17 & RS17		
CS10 & RS10:	2.50 lbs (1.13 kgs)	

Standard:	
Optional:	

316 stainless steel Titanium, grade 2 (T) Hastelloy C22 (H)

CABLE LENGTH

Standard: Optional: Maximum: Type:

10 feet Specify in 10' increments. 50 feet 6-conductor shielded

O-RING MATERIALS

Standard: Optional:

Viton (VIT) EPR (EPR) Fluorosilicone (FSIL) Silicone (SIL) Kalrez (KLZ) CV75 (CV)

PROCESS CONNECTIONS (optional)

CS10 & RS10:	-75	3/4" 316ss gland fitting with nylon ferrule.
	-75HT	3/4" 316ss gland fitting with Teflon ferrule.
	-75SF	3/4" 316ss gland fitting with stainless steel ferrule.
	-75TFE	3/4" all-Teflon gland fitting.
CS17 & RS17:	-VSS	1" 316ss valve-retraction assembly.
	-VCS	1" carbon steel valve- retraction assembly.
	-VKY	1" Kynar valve-retraction assembly.

All sensors ordered with valve-retraction assemblies are provided with safety lanyards.

TEMPERATURE COMPENSATION

Automatic. 0°C to +100°C. Accuracy within +/-0.2°C over a +5°C to -95°C span. Uses a 100,000 ohm thermistor, integral to sensor.

- 1 Optional temperature ratings are allowed with the use of high temperature polymers such as Ryton, and Teflon.
- 2 Optional pressure ratings are allowed with the use of metallic retaining ferrules. High temperature polymers should also be used where high pressure and temperature are present.