

ELECTRO - CHEMICAL DEVICES, INC.

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SPECIFICATION SUMMARY SPECIFIC ION (pIon) SENSOR SPECIFICATION Models MVS10 & MVS17

MEASUREMENT RANGE:

Electrode dependent, refer to the desired Specific ion specification sheet. Ions available include: bromide, calcium, chloride, fluoride, potassium, silver, sodium, sulfide, and cyanide.

OUTPUT:

Signal conditioned output, intrinsically-safe.

SIGNAL CONDITIONER:

Integral to sensor. Four types available:
T23: Models T23, T28, & T21 transmitter
C22: Model system C22

POWER SUPPLY:

Provided by the transmitter.

OPERATING TEMPERATURE:

Electrode dependent. Refer to the appropriate electrode specification sheet.

OPERATING PRESSURE:

Electrode dependent. Refer to the appropriate electrode specification sheet.

DIMENSIONS:

PHS0*: 0.75" dia x 13.75" lg.
(1.9 cm x 34.9 cm)
PHS17*: 0.75" dia x 24.00" lg.
(1.9 cm x 60 cm)

Dimensions are housing diameter x length of sensor.
S10 sensor length is measured from front of seal guard to rear of strain relief.

S17 sensor length is measured from front of the fully extended valve retraction assembly to the rear of the extension assembly.

SHIPPING WEIGHT:

PHS10: 2.50 lbs (1.13 kgs)
PHS17: 2.75 lbs (1.25 kgs)
PHS17-VSS: 5.80 lbs (2.63 kgs)

HOUSING MATERIALS:

Standard: 316 stainless steel
Optional: Titanium, grade 2 (T)
Hastelloy C22 (H)
Kynar, PVDF (K)

O-RING MATERIALS:

Standard: Viton (VIT)
Optional: EPR (EPR)
Fluorosilicone (FSIL)
Silicone (SIL)
Kairez (KLZ)
CV75 (CV75)
HF resistant Viton (VIT75)

CABLE:

Standard: 10 feet
Optional: Specify in 10' increments.
Maximum: 3 miles
T23 Type: 6-conductor shielded (Belden 8786)
C22 Type: 6-conductor shielded (Belden 8786)

PROCESS CONNECTIONS: (optional)

MVS10 -75 3/4" 316ss gland fitting with nylon ferrule.
-75HT 3/4m 316ss gland fitting with Teflon ferrule.
-75SF 3/4" 316ss gland fitting with stainless steel ferrule.
-75TFE 3/4" all Teflon gland fitting.
-100 1" all Teflon gland fitting (Kynar housings only)

MVS17: -VSS 1" 316ss valve-retraction assembly.
-VKY 1" Kynar valve-retraction assembly.

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

TEMPERATURE COMPENSATION:

Automatic, temperature compensation through customized Isopotential point algorithms.

Accuracy within +/- 0.2°C over the full temperature range.
Uses a 3,000 ohm Balco RTD, integral to sensor.

**SENTINEL DIAGNOSTIC FEATURE:

Option allowing for continuous monitoring of the degradation of the internal reference fill solution.

* The S17 sensor includes an extension assembly. The S10 sensor does not.

** The "SENTINEL" Pre-pHault diagnostic feature is patent pending.