EMCO Conductivity Sensors with External Electrodes series 621

APPLICATIONS

The EMCO conductivity sensor is designed to monitor high and low conductivity process liquids.

INDUSTRIES

Power plants. Pulp and paper. Sugar industry. General food and beverage industries. And other liquid handling industries.

CONSTRUCTION

The sensor element has a 4 electrode design for higher accuracy. The electrodes are external for use in larger pipes and vessels for mid to high conductivity ranges. The sensor element has an accurate temperature sensor with low response time for fast temperature compensation. Our many years in instrument design guarantees a roughed design, but still allows the possibility to solve customers’ special requirements. A selection of electrode and sensor element materials are available to suit the specific application.

FEATURES

Easy to install  I  Applicable for high temperature and pressure  I  Rugged design  I  Wide selection of materials and mounting options  I  Resistant to scaling
Technical Specification

Measuring range : 200 nS/cm to 1000 mS/cm
Material. electrodes : Stainless steel AISI 316, other materials on request
Material. sensor body : Stainless steel AISI 316, 22 Cr duplex, 25 Cr duplex, Hastelloy C-276, Monel, Titanium and other materials on request
Material. Electrode holder : PTFE
Process connection : 1 ¼” internal thread BSP or NPT, 1” external thread BSP or NPT
Installation lengths : 204 mm (standard), 350 to 3500 mm see coding for selection
Pressure : Max 30 bar-g, higher pressure on request
Temperature : Max 200°C,
Temperature element : Pt1000 Class A
Cell constant : individually determined, value is marked on sensor body
Uncertainty : 1 % per decade
Protection class : IP 65
Electrical connection : 9 pole connector

Quality Assurance

ISO 9001 : 2008 certified, PED Module H
OVERALL DIMENSIONS

Dimensions in mm

SENSOR CODING

1. Type 621
2. Mounting
   1 ¼” BSP int. code 3B
   1 ¼” NPT int. code 3N
   1” BSP ext. code 2B
   1” NPT ext. code 2N
3. Electrode type
   External code 2
4. Electrode material
   Stainless steel 316 code 316
   Other, please specify
5. Sensor body
   316/PTFE code 3P
   Other, please specify
6. Length, insertion
   204 mm code 020
   350 mm code 035
   500 mm code 050
   1000 mm code 100
   1500 mm code 150
   2000 mm code 200
   2500 mm code 250
   3000 mm code 300
   3500 mm code 350

Example

Conductivity sensor with 1 ¼” BSP internal thread, external electrodes in stainless steel 316, sensor body in AISI 316 and PTFE and installation length 204 mm has following code:

621-3B-2-316-3P-020