Emco Controls

CONSTRUCTION AND DESIGN OF INSTRUMENTS FOR FLOW, LEVEL AND TEMPERATURE

EMCO Conductivity Sensors with Internal Electrodes series 611

APPLICATIONS

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

INDUSTRIES

Power plants, conventional and nuclear. Pulp & Paper. Oil & Gas 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 internal for use in smaller pipes and for lower 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 sensors element materials is available to suit the specific application.

FEATURES

Easy to install | Applicable for high temperature and pressure | Rugged design | Wide selection of materials and mounting options | Resistant to scaling.





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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 : 120 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

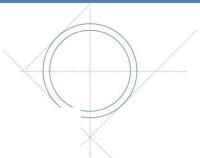
QUALITY ASSURANCE

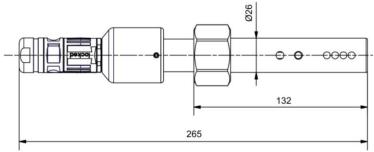
ISO 9001: 2008 certified, PED Module H

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OVERALL DIMENSIONS





Dimensions in mm

SENSOR CODING

1.	Type 611		
2.		code code code code	3B 3N 2B 2N
3.	Electrode type Internal	code	1
4.	Electrode material Stainless steel 316 Other, please specify	code	316
5.	Sensor body 316/PTFE Other, please specify	code	3P
6.	Length, insertion 132 mm 350 mm 500 mm 1000 mm 1500 mm	code code code code	013 035 050 100 150

Example

Conductivity sensor with 1 $\frac{1}{4}$ " BSP internal thread, internal electrodes in stainless steel 316, sensor body in AISI 316 and PTFE and installation length 132 mm has following code:

611-3B-1-316-3P-013