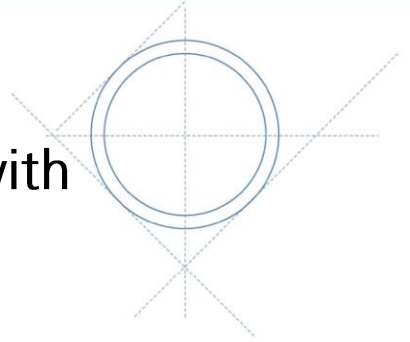


# EMCO Sanitary Conductivity Sensors with External Electrodes series 623



## APPLICATIONS

The EMCO conductivity sensor series 623 for sanitary applications is designed to monitor low conductivity process liquids.

## INDUSTRIES

Pharmaceutical, dairy and other general food industries.

## CONSTRUCTION

The sensor element has a 4 electrode design for higher accuracy. The sensor element has an accurate temperature sensor with low response time for fast temperature compensation. Our many years in instrument design guarantees a rugged 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.

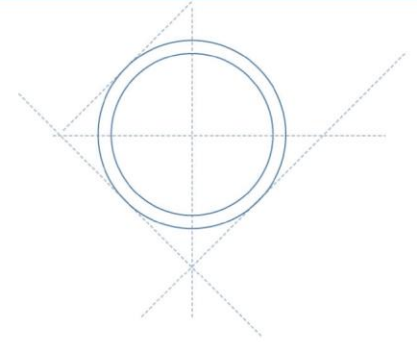
## FEATURES

Easy to install | Applicable for UPW applications | Rugged design | Wide selection of materials and mounting options | Wetted parts polished to Ra 0,8 | Resistant to scaling.

## INSTALLATION

Not suitable for installation in plastic tubing. The sensor should be installed into a 2" pipe (51 mm). Installation in 1½" (38 mm) or 3" (76 mm) is possible, but require re-calibration.





## TECHNICAL SPECIFICATION

- Measuring range : 55 nS/cm to 20 mS/cm
- Material. electrodes : Stainless steel AISI 316, other materials on request
- Material. sensor body : Stainless steel AISI 316.
- Material.  
Electrode holder : PTFE
- Process connection : 2" ISO 2852 flange for clamp connection.
- Installation length : 65 mm, other lengths on request
- Pressure : Max 12 bar-g.
- Temperature : Max 160°C,
- Temperature element : Pt1000 Class A to IEC 751
- Cell constant : individually determined, value is marked on sensor body
- Uncertainty : 2 % per decade
- Protection class : IP 65
- Electrical connection : Connector, 9 PIN

## SENSOR CODING

- |                       |      |     |  |
|-----------------------|------|-----|--|
| 1. Type 623           |      |     |  |
| 2. Mounting           |      |     |  |
| 2" ISO 2852.          | code | 5C  |  |
| 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  |      |     |  |
| 65 mm                 | code | 006 |  |

### Example

Conductivity sensor with 2" ISO 2852, external electrodes in stainless steel 316, sensor body in AISI 316 and PTFE and installation length 65 mm has following code:

**623-5C-2-316-3P-006**