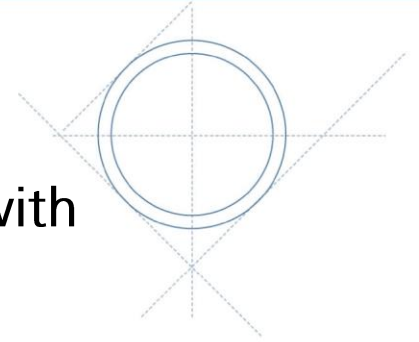


## EMCO Sanitary Conductivity Sensors with Internal Electrodes series 613



### APPLICATIONS

The EMCO conductivity sensor series 613 for sanitary applications is designed to monitor high and 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 electrodes are internal for use in smaller pipes and for low 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 rugged design, but still allows the possibility to solve customers' special requirements.

A selection of electrodes and sensor element materials are available to suit the specific application.

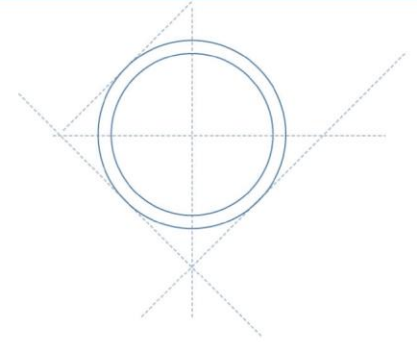
### FEATURES

Easy to install | Rugged design | Wide selection of materials and mounting options | Resistant to scaling.

### ADVANTAGES

High accuracy due to the 4 electrode design compared to the simpler 2 electrode design  
Sensors are aged in process chamber before delivery for longer life time and trouble free service.  
Fast delivery time





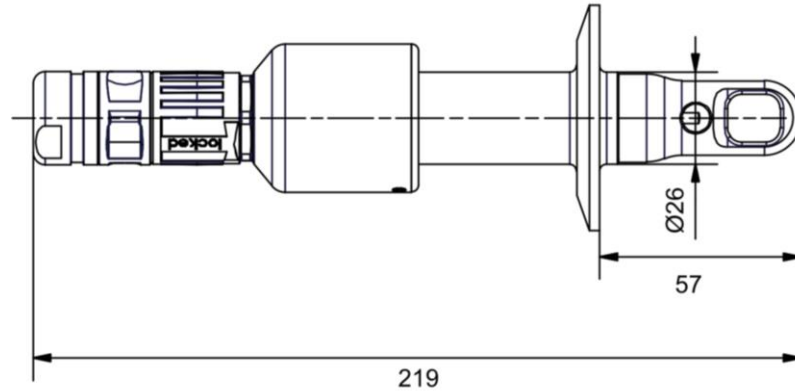
## TECHNICAL SPECIFICATION

|                               |   |
|-------------------------------|---|
| Measuring range               | : 500 nS/cm to 200 mS/cm                                  |
| Material. electrodes          | : Stainless steel AISI 316, other materials on request    |
| Material. sensor body         | : Stainless steel AISI 316.                               |
| Material.<br>Electrode holder | : PVDF  |
| Process connection            | : 2" ISO 2852 flange for clamp connection.                |
| Installation length           | : 57 mm, other lengths on request                         |
| Pressure                      | : Max 10 bar-g.   |
| Temperature                   | : Max 130°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         | : 9 pole connector  |

## QUALITY ASSURANCE

ISO 9001 : 2008 certified, PED Module H

## OVERALL DIMENSIONS



Dimensions in mm

## SENSOR CODING

- |                       |      |  |     |
|-----------------------|------|--|-----|
| 1. Type 613           |      |  |     |
| 2. Mounting           |      |  |     |
| 2" ISO 2852.          | code |  | 5C  |
| 3. Electrode type     |      |  |     |
| Internal              | code |  | 1   |
| 4. Electrode material |      |  |     |
| Stainless steel 316   | code |  | 316 |
| Other, please specify |      |  |     |
| 5. Sensor body        |      |  |     |
| 316/PVDF              | code |  | 3V  |
| Other, please specify |      |  |     |
| 6. Length, insertion  |      |  |     |
| 57 mm                 | code |  | 005 |

### Example

Conductivity sensor with 2" ISO 2852, internal electrodes in stainless steel 316, sensor body in AISI 316 and PTFE and installation length 57 mm has following code:

**613-5C-1-316-3P-005**