

Measuring System **SYNVA-SD**

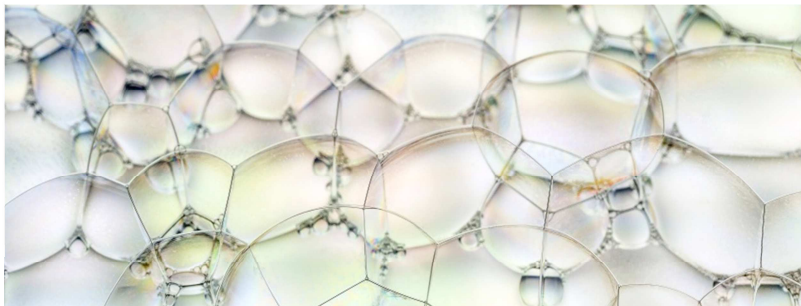
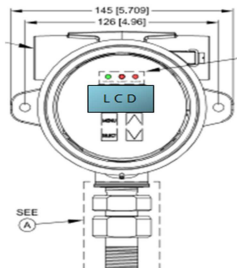
Detect exactly a **foam limit** – even if there is **sticky buildup**

No matter whether conductive or not...it works with the Measuring System **SYNVA-SD**.

Precise foam detection – via the Measuring System **SYNVA-SD**; including a potential booster made of stainless steel - can be used up to 200°C and for a maximum of 100bar.

Due to its application-specific design, the **SYNVA-SD** - combined with the appropriate RF Impedance Sensor Technology - is an effective instrument and can be used excellently for the selective detection of foams - even in the event of adhesions.

FOAM - **conductive or non-conductive...**? That doesn't matter!



Features RF-Impedance-Sensor Technology

in consisting of



Control Unit 02882; Technical Specifications

incl. Frequency Modul

Operating -°C -40 °C , max. 55 °C

Measur principal: **RF-Impedance** (capazitive)

Resolution 0.04 pF up to 3.000 pF

Accuracy 0.2% full scale pF

Power Input 24 V –DC

Communication RS-485 Modbus

2-Relays, with two NO- / NC-Contacts

both with storable **signal output**

- 4mA (Normal State 1/2)
- 20mA (ALARM State 1/2)
- adjustable time delay (0-600sec.)

Sensor body; Technical Specifications

Rod Probe Stainless steel 316SS; Teflon
¾"NPT thread

including

Probe housing Aluminium - IP66

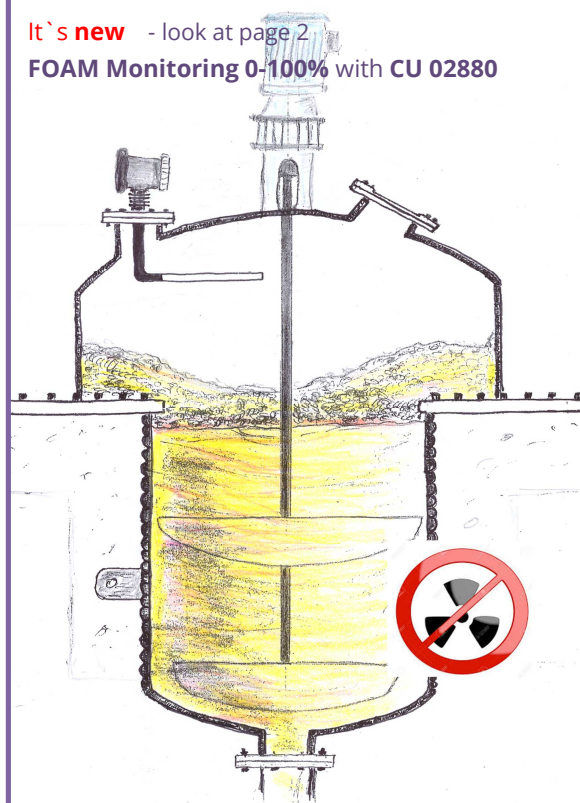
Certificates - for the Control Unit and Rod Probe

UL/CSA/IEC 61010-1 ; CAN/CSA 22.2

IECEX / ATEX Class 1, Zone 1,2; Ex ib IIC T5 Gb

It's new - look at page 2

FOAM Monitoring 0-100% with CU 02880



Process-Features **SYNVA-SD**; with integral Sensor body

Operating temperatures min. -40 °C , max. 200 °C

Operating pressure 0,0bar , max. 100,0bar

Process connection DN 25 bis DN 150

Flange according **EN 1092-1** **PN 10 bis PN 100**

or e.g. DIN EN 2401

Potential-Booster made in stainless steel 1.4404

in considering according to Machinery Directive 2006/42/EU

Prozess connection fully welded

in combination with inactive area; in a individual length with an additional seal (PTFE-plastic)

Length under the flange face max. 3.000mm

OPTIONS

- Concentric sheald in stainless steel
- Jacket made with Kynar (PVDF-pastic)
- Jacket made with borosilicate glas

Potential-Booster with an integral **Rod probe** stainless steel 316SS; Teflon
¾"NPT thread

Measuring System **SYNVA-SD**

Detect exactly a **foam limit** – even if there is **sticky buildup**

No matter whether conductive or not...it works with the Measuring System **SYNVA-SD**.

Perfect Measuring System!

SYNVA-SD monitors the capacitance field around the active probe. A calibration is carried out against the existing gas or air atmosphere and the foam forming real liquid phase. Both states of matter usually have different dielectric constants.

The Potential Booster and integrated Rod Probe are always produced to the desired length of the control range. The instrument is actively partially or completely wetted by foam. The changing foam wetting results in a 4mA or 20 mA signal. All relevant RF measurement data assumes that the active area of the probe is impaired in accordance with the objective structure of the **SYNVA-SD**.

A gas or air atmosphere does not affect the foam detection!



Benefits

simple "two-point" calibration; in seconds

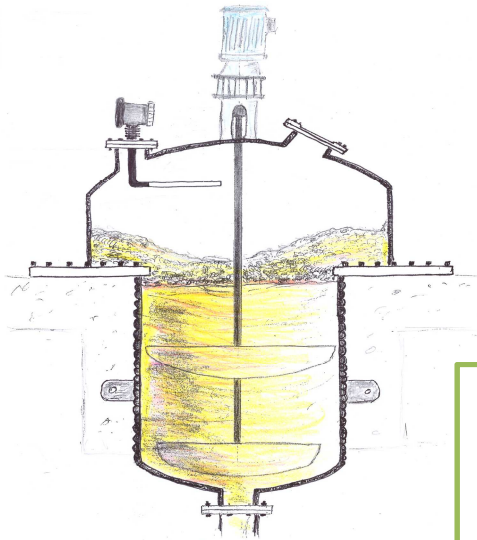
Continuous foam detection as

4mA or 20mA signal

safe, sensitive - despite harsh conditions

- real-time responsiveness to all liquid foams
- regardless of whether conductive or not
- copes very well with sticky attachments

No routine cleaning is required.



It's new: FOAM monitoring with the Control Unit 02880

Der The actual state of full or partial foam wetting of the active area of the probe can be continuously regulated from 0% to 100% using the Control Unit 02880 !

- Using a storable signal output = (0)4.0 – 20mA

Requirement: defined calibration status (e.g. via viewing glass)