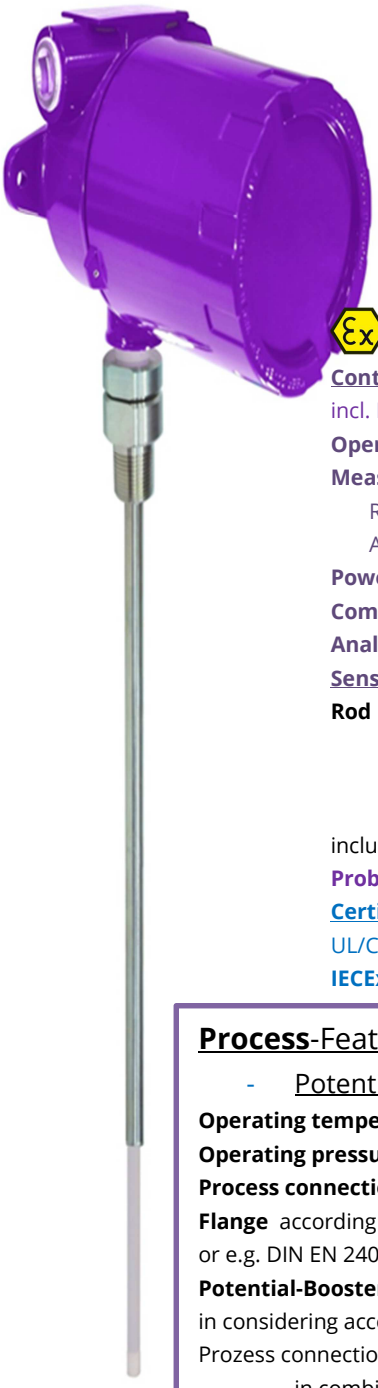
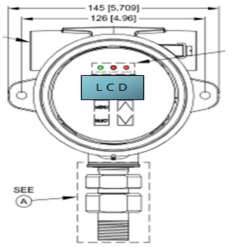
Measuring System **SYNVA-TN**

Measure an **interface level –** also with the case of **mixture plateaus, phase reversal + adhesion.**
That works exactly - with the Measuring System **SYNVA-TN !**

For an exact **interface level measurement** you should use only one. You should use the Measuring System **SYNVA-TN**; including a potential booster made of stainless steel - can be used up to 200°C and a maximum of up to 100bar.
The Measuring System **SYNVA-TN** integrates an RF impedance sensor technology (consisting of a rod probe including control electronics 02880) into one unit and can be used perfectly for interface level measurement - even in the event of a **phase reversal**, **organic adhesions** or **mixture plateaus**! As a metrological potential booster, the Measuring System **SYNVA-TN** controled the measuring behavior of the integrated rod probe, strengthens.





OPTION
with **viewing window**

Features

RF-Impedance-Sensor Technology

in consisting of

Control Unit 02880; Technical Specifications
incl. Frequency transmitter

Operating -°C	-40˚C , max. 55˚C
Measur principal:	**RF-Impedance** (capazitive)
Resulution	0.04 pF up to 3.000 pF
Accuracy	0.2% full scale pF
Power Input	24 V –DC
Communication	RS-485 Modbus
Analog output	0/ 4 – 20mA - proportional

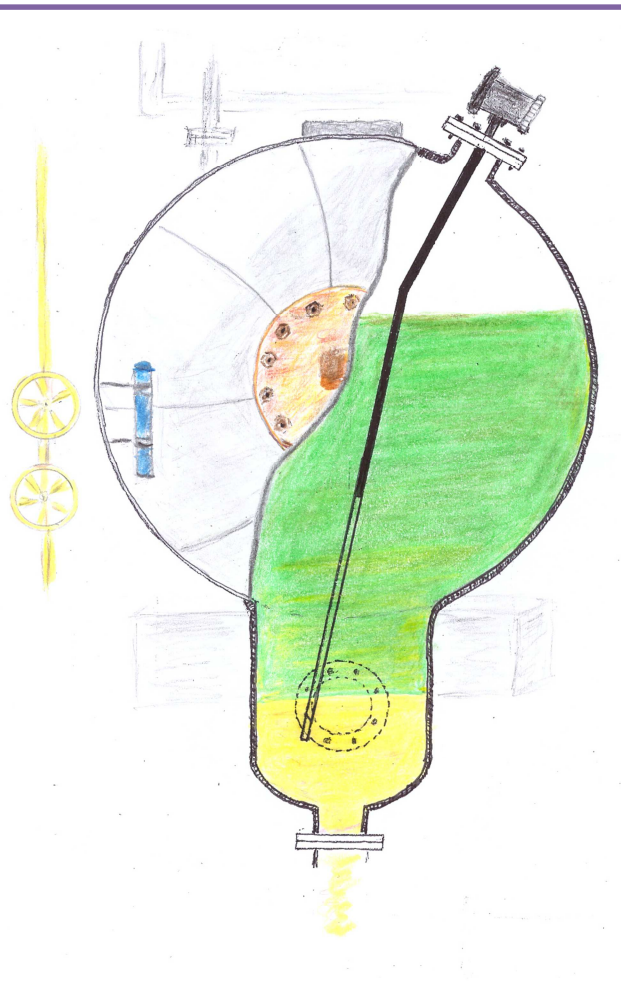
Sensor body; Technical Specifications

Rod Probe	Stainless steel 316SS; Teflon ¾"NPT thread min. -20°C, max. 200°C max. 100,0bar

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



Process-Features **SYNVA-TN**

- Potential-Booster with integral Rod probe

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 individuel 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

Synva GmbH - process instruments - Theodor-Storm-Strasse 8 - 25462 Rellingen - Germany
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Measuring System **SYNVA-TN**

Measure an **interface level –** also with the case of **mixture plateaus, phase reversal + adhesion.**
That works exactly - with the Measuring System **SYNVA-TN !**

Perfect!

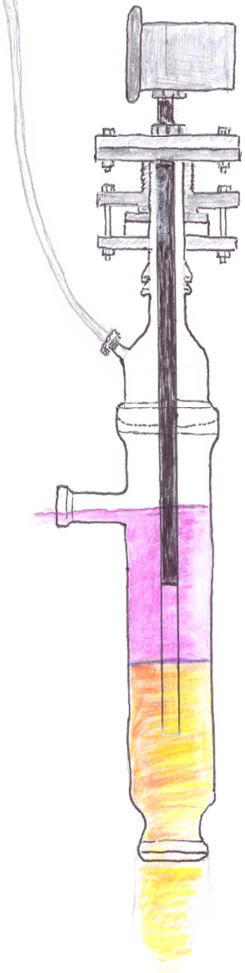
The combination of the Measuring System **SYNVA-TN** with the RF impedance sensor technology, monitors the capacitance around the active area of the probe. An inactive segment is made available via the measuring system. In accordance with the control range, the rod probe is actively completely immersed in both liquid phases.

Both phases usually have different dielectric constants. The changing interface level results in a proportional change in the 0/4-20 mA signal based on the stored calibration.

For a **two-point calibration**, only a defined change in the interface level of 10% needs to be brought about. Only the registered change of the measurement value has to be saved – done! A product change can also be easily managed! All relevant measurement data comes exclusively from the active area of the probe.

The total level above – no matter if it is air or foam - does not affect the interface level measurement!

Measuring System also to use **for** applications wich are built with borosilicate **glas**
Process flange in a inner diameter of 40mm
- in **special** also **GL25**
  - but only as Measuring System **SYNVA-TNplus**



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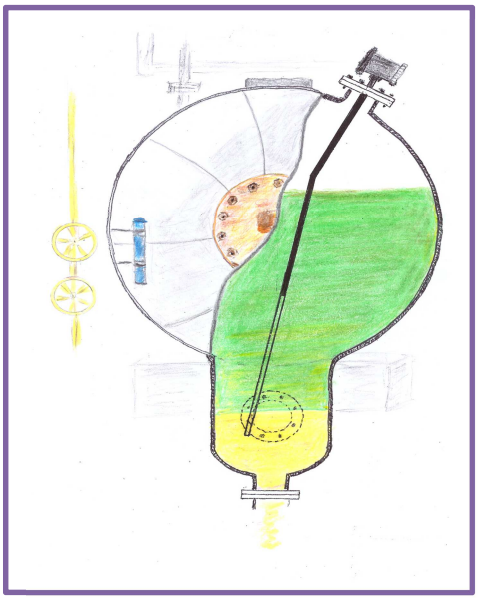

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