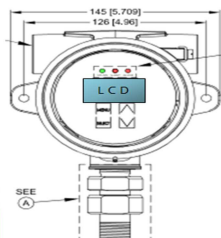


Measuring System SYNVA-LN

For **powders, granules** and **adhesive fluids**; precisely measure a level.
This **works** - with the Measuring System **SYNVA-LN**!

Exact level via **SYNVA-LN**; 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-LN** integrates an RF impedance sensor technology (consisting of a rod probe including control 02880) into one unit and it is designed to controlled filling levels continuously - especially for **powder** and **granules** or **fluids** with **organic adhesion**!
As a potential booster, the **SYNVA-LN** supports the measuring behavior of the integrated rod probe.
A small change in level immediately leads to a "new" total signal of 4 - 20mA - even with an additional head of foam on the fluid surface !



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)
Resolution	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. -40°C, max. 200°C
	max. 100,0bar

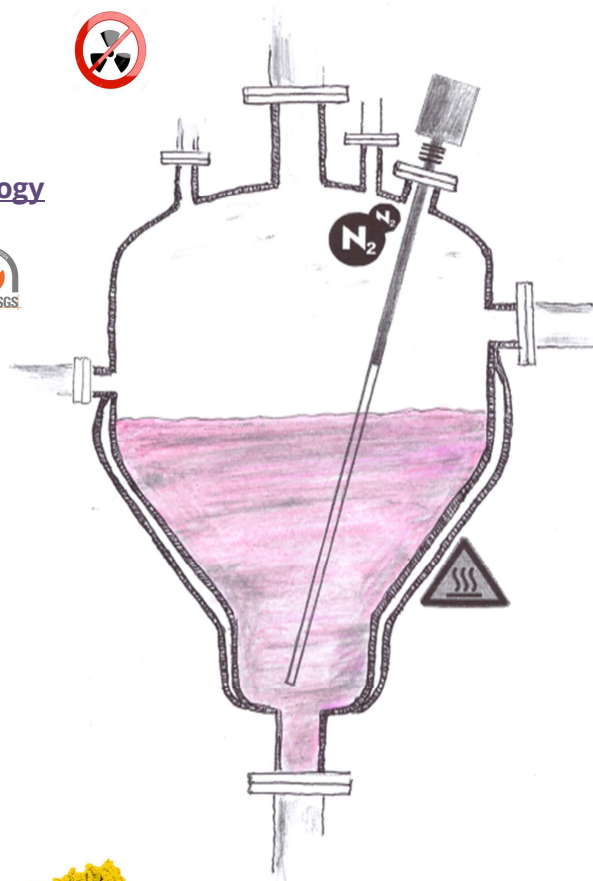
including

Probe housing Aluminium - IP66

Certificates - for the Control Unit and Rod I

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 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-LN

For **powders, granules** and **adhesive fluids**; precisely measure a level.
This **works** - with the Measuring System **SYNVA-LN**!

Perfect!

The combination of the Measuring System **SYNVA-LN** 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. The rod probe is designed to be active in accordance with the control range.

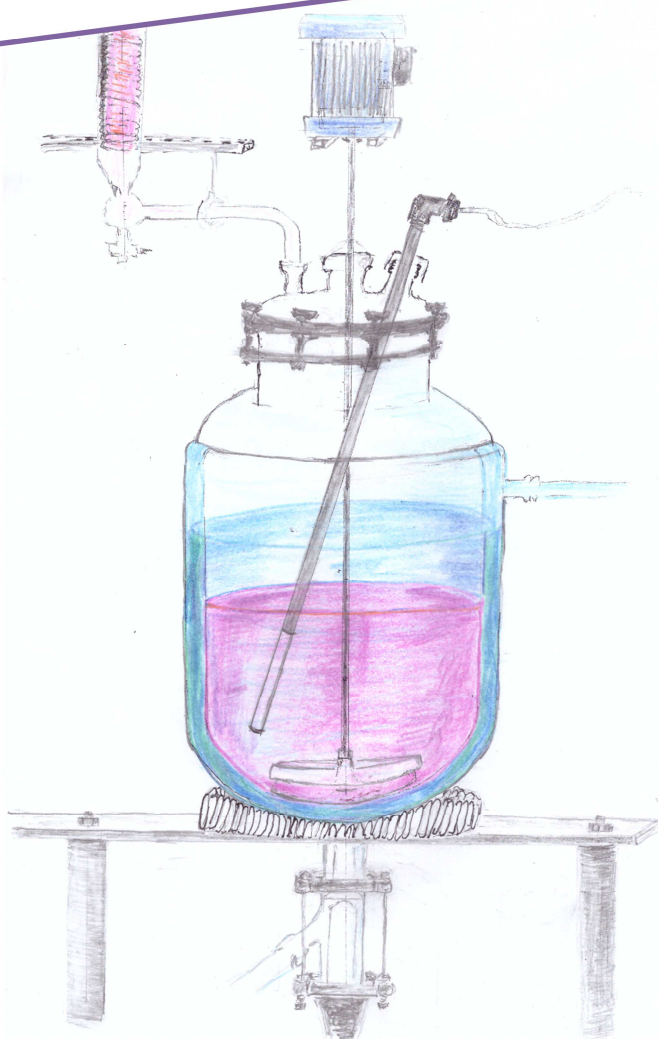
For a **two-point calibration**, only a defined change in the level of 10% needs to be brought about. The registered measurement value change is saved – done! A product change can also be **easily managed**.

In the context of the medium being washed around or adjacent to it as well as the existing (gas) atmosphere, a continuous measured value curve of 0% - 100% or a proportional output signal of 0 / 4 - 20 mA is created.

All relevant measurement data comes exclusively from the active area of the measuring system. The total level above this does not affect

Measuring System also to use **for** applications which are built with borosilicate **glas**
Process flange in a inner diameter of 40mm

- in **special** also **GL25**
- but only as Measuring System **SYNVA-LNplus**



Control Unit 02880; Technical Specifications

incl. Frequency transmitter

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