

## Measuring System SYNVA-4c

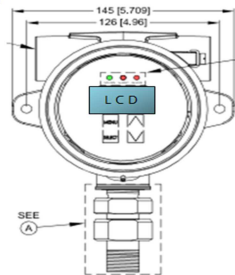
Use it for a **concentration**, a **reactivity** or to check a **fluid change** – trust the Measuring System **SYNVA-4c** every day – 24/7 !

The Measuring System **SYNVA-4c** integrates a potential booster made in stainless steel - can be used up to 200°C and up to max. 100bar. Due to its application-specific design, the **SYNVA-4c** - combined with RF impedance technology - is an effective instrument and always the right choice for liquid monitoring! Whether in the form of a reaction, a concentration or a liquid change !

With **SYNVA-4c** you can already benefit in Pilot Plants

- starting with a proportion of water (from 1.0%) in organics
- up to efficient separation times of different liquids.

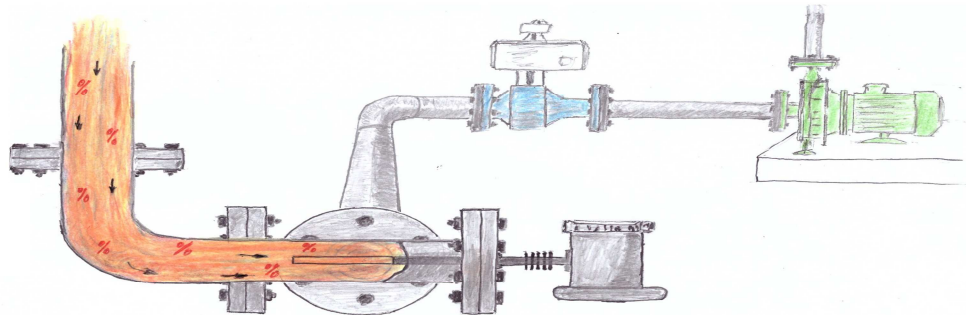
**Commissioning ? ... do it quick and easy with a [two-point calibration!](#)**



**OPTION:**  
with viewing window

### OPTION

with **temperature compensation**



### Process-Features SYNVA-4c

- **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

Process 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 shield 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

### 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 Probe

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

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

## Measuring System **SYNVA-4c**

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### Perfect !

The combined Measuring System **SYNVA-4c** with integrated RF impedance sensor technology monitors continuously every change in capacity. Changing product properties are registered via the active area of the probe and converted directly into a usable 0/4-20 mA signal via the Control Unit 02880.

Commissioning is quick and easy with the **two-point calibration!** The Measuring System is put into operation by recording measured values twice using different product definitions. All changing capacitive RF measurement data is based on the impairment of the active area of the probe in accordance with the objective structure of the **SYNVA-4c**. Actively, the Measuring System is always completely flooded with product or exposed to the direct volum.

### ALTERNATIVE

- with an **sensing flange**; made in Kynar (PVDF) plastic
    - almost without deth zone inside
- and including with the remote Control Unit 02852 as **Measuring System SYNVA-4c-Disc**  
from **DN 50 to DN 150, PN 16**  
Operating Terms: **max. 100°C; 16.0 bar**  
[IECEX / ATEX: Class 1, Zone 0,1,2; Ex ia IIC T4 Ga](#)  
- including an Instrinckly Safty Barrier

