

Measuring System SYNVA-C24-7

to use for **liquid separations** or **dry pipe protection**

This **works** effectively **with** the Measuring System **SYNVA-C24-7!**

The Measuring System **SYNVA-C24-7** differs fluids between

Organic- , **MIXTURES** - or Water phases

and it`s measurt air or water proportionate in every fluid despite to film coatings and adhesions

For an exact measurement you should use only one. You should use the Measuring System **SYNVA-C24-7**; including a potential booster made of stainless steel - can be used up to 200°C and a maximum of up to 100bar.

As a measurement reference, the installed **SYNVA-C24-7** strengthens the behavior of the integrated rod probe. Capacity changes in the fluid volume flow are therefore registered almost in real time to a "new" total signal. It works, because the measuring system has an individual and mostly a concentric structure.

Commissioning or phase change?....the solution is the two-point calibration within seconds

Features RF-Impedance-Sensor Technology

in consisting of



Control Unit 02852; Technical Specifications

Installation only in no hazardous areas,
for DIN-Rail
or in a Sheet steel enclosure IP66

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

two Alarm Relays both with 2 NO- / NC-contacts

Instrincky Safty Barrier

to use the RF-Impedance-Sensor-Technology according to **ATEX Class 1, Zone 0,1,2; Ex ia IIC T4 Ga**

Sensor body; Technical Specifications

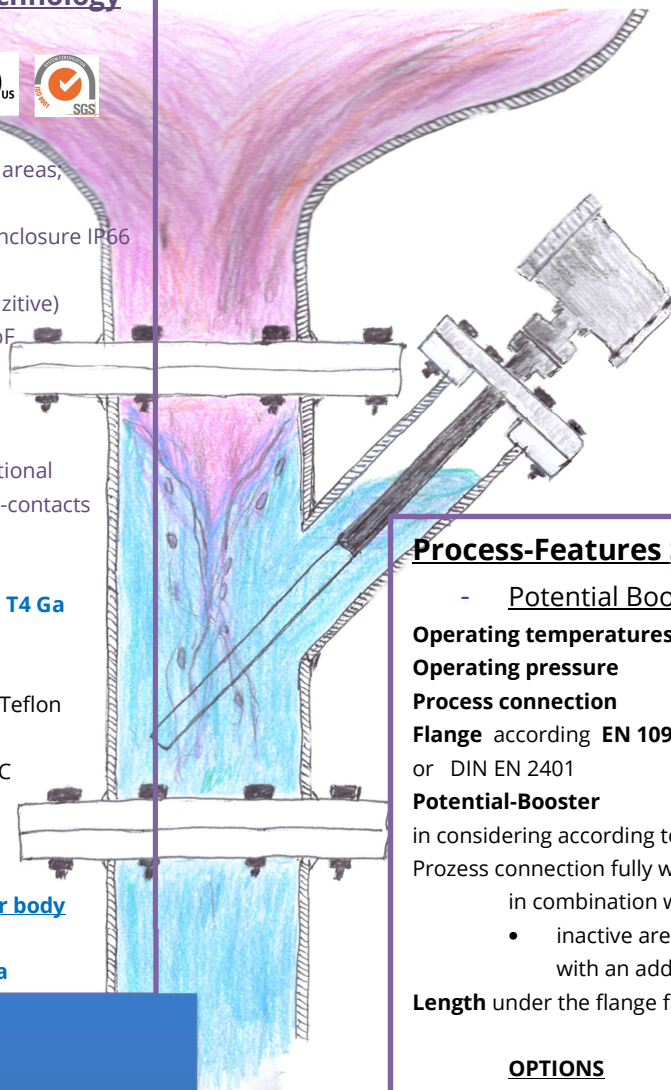
Rod probe Stainless steel 316SS; Teflon
¾"NPT thread
min. -40°C, max. 200°C
max. 100,0bar

Probe housing Aluminium - IP66,
incl. Frequency Modul

Certificates - for the Control Unit and Sensor body

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

IECEX / ATEX Class 1, Zone 0,1,2; Ex ia IIC T4 Ga



Process-Features SYNVA-C24-7

- Potential Booster and the rod probe

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

Operating pressure max. 100,0bar

Process connection DN 25 up to DN 150

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

or 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 (e.g. Viton or Kalrez)

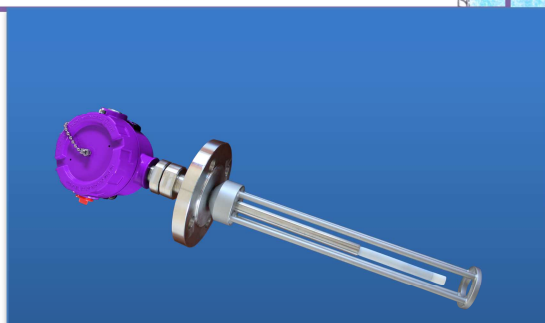
Length under the flange face max. 3.000mm

OPTIONS

- Conzentric sheald in stainless steel c
- 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



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Almost perfect measuring system!

The Measuring System **SYNVA-C24-7** monitors the capacitance field around the active area of the probe. Calibration takes place immediately and in direct connection with the defined, attached medium. Therefore, the probe is always produced in relation to the measurement goals and requirements of the application.

Different fluids usually have different dielectric constants. A changing state in the medium ("phase jump") immediately leads to a proportional change in the output signal of 4-20 mA.

Thus proportionate air in liquid phases or even mixtures can be distinguished from organic phases by measurement! An almost perfect Measuring System for phase separation or as dry run protection!

Technical intents of the Control Unit 02852



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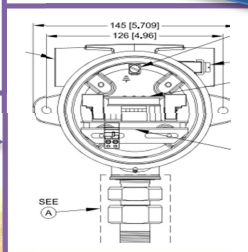
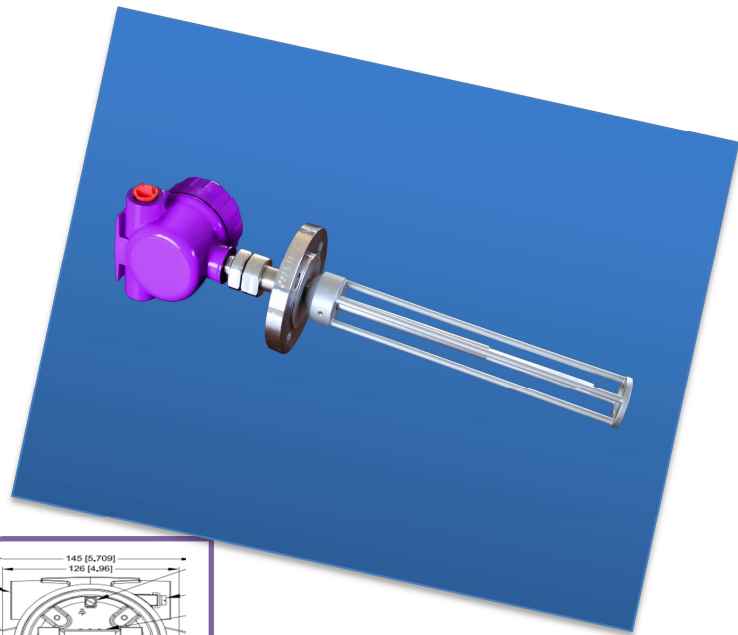
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Options Alarm light, Summer



1.000m

