Measureing System SYNVA-4c-DISC

Liquid interface detection and **phase monitoring** – real **dry pump protection**.

This works with the SYNVA-4c-DISC consisting of flange probe and Control Unit 02852!



The Measuring System **SYNVA-4c-DISC** <u>differs fluids between</u>

Organic-, MIXTURES - or Water phases

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

For an exact measurement you should use only one. – the **SYNVA-4c-DISC**; an RF impedance sensor as a combined measuring unit for sensitive applications - almost free of dead space and

- can be used effectively; even with organic adhesions!

- proven measurement technology for tough industrial use!

It works,, because the measuring system has an individual and a concentric structure. So, capacity changes in the fluid volume flow are therefore registered almost in real time to a "new" total signal.

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

Features

- Measuring principle: RF impedance sensor technology
- effective phase monitoring / interface detection
- dry pump and dry pipe protection
- for all types of liquids

VUV

Control Unit 02852

- Output signal
- Responsiveness
 - 0.04pF to 3,000pF
- Deviation 0.2% of the final value pF
- 2 relay NO / NC contacts
- adjustable time delay
- 0-600 seconds

0/4 – 20mA



Features Flange Probe

Solid flange probe made of Kynar PVDF (or PVC) plastic

- almost free of dead zone
- full passage
- for easy assembly

Flange probe made of Kynar (PVDF)up to **max. 100°C**Flange norm:EN 1092-1 PN 16

٠	Dimensions in	DN 25 bis DN 150
Proces	pressure :	up to max. 16,0bar

For existing or new process facilities - <u>installation is easy</u> You don't need much space because the flange probe is - <u>only 53mm thick</u>

Example 2 Measureing System **SYNVA-4c-DISC** Liquid interface detection and phase monitoring – real dry pump protection.

This works with the SYNVA-4c-DISC consisting of flange probe and Control Unit 02852!



Almost perfect measuring system!

The RF impedance sensor monitors the capacitance field within the flange probe. The flange probe is produced with almost no dead zone in DN 25 to DN 150. When installed and in operation, the flange probe is usually completely flooded with product. Different liquid phases always have different dielectric constants.

Even a slight phase change causes the proportional change in the 4-20 mA signal!

For a two-point calibration, only a defined change of 10% in the storage medium needs to be made. The change in measured value is saved – done!

This makes it easy to manage a product change - even MIXTURES phases are detected immediately!

