



detect and identify

Process Control

Concentration, Dry Mass Water Content

measured effectively,

reliably &

accurately

Micro-Polar

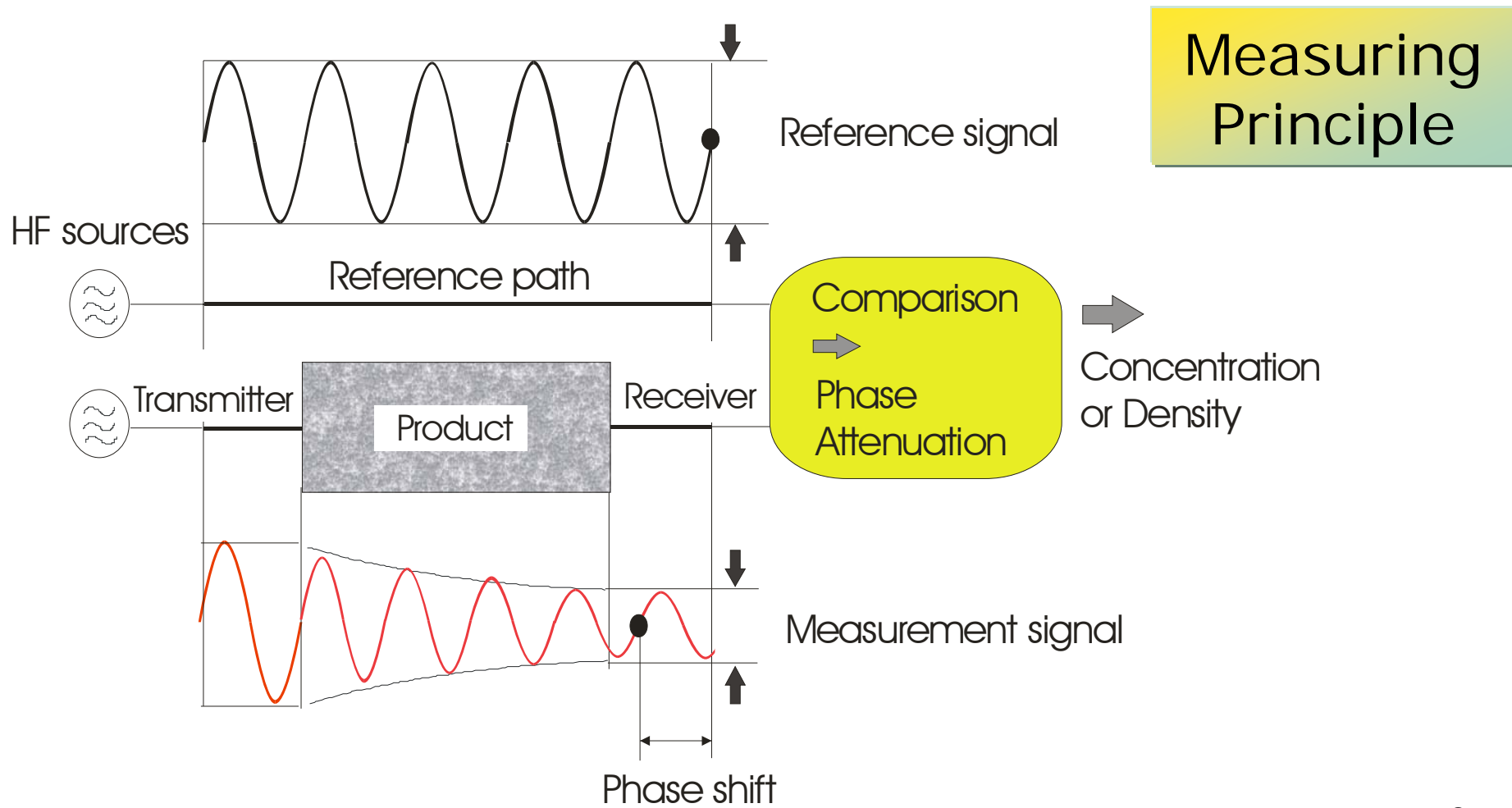
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Measuring with Microwaves



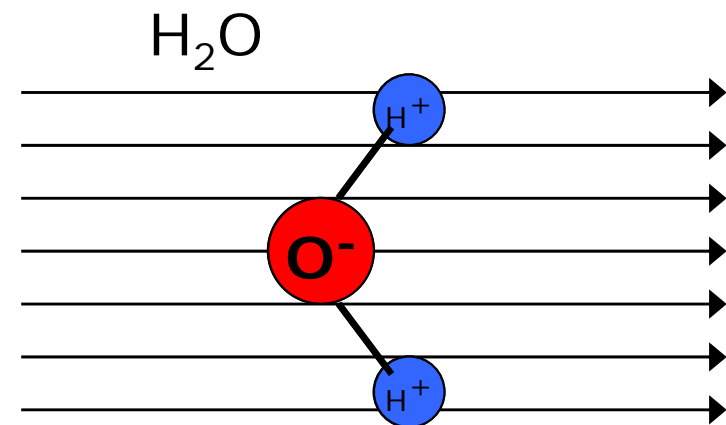


Measurement with Microwaves

- Material is polarised
- Polar Materials are aligned

Your Advantages:

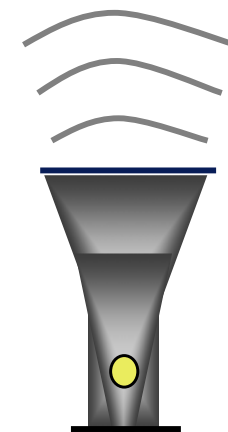
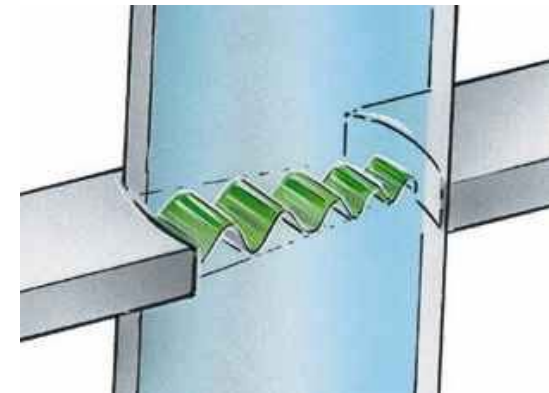
- ✓ High Accuracy by selective measurement of water
- ✓ No product colour influence



Measurement with Microwaves

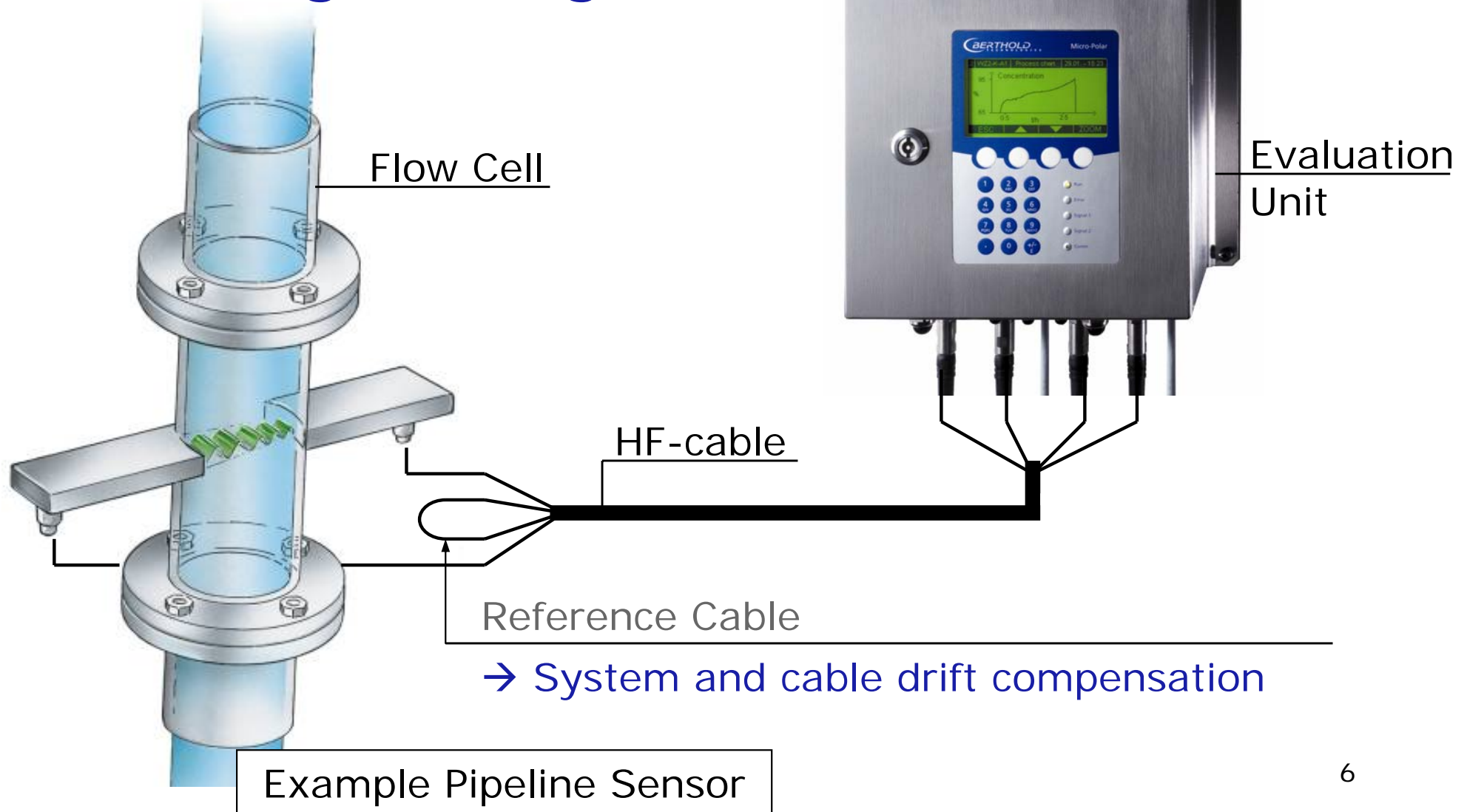
Your Advantages:

- ✓ Representative measuring volume by transmission measurement
- ✓ Very low transmission power, absolute safe for humans and environment due to the most modern technology





Measuring Arrangement

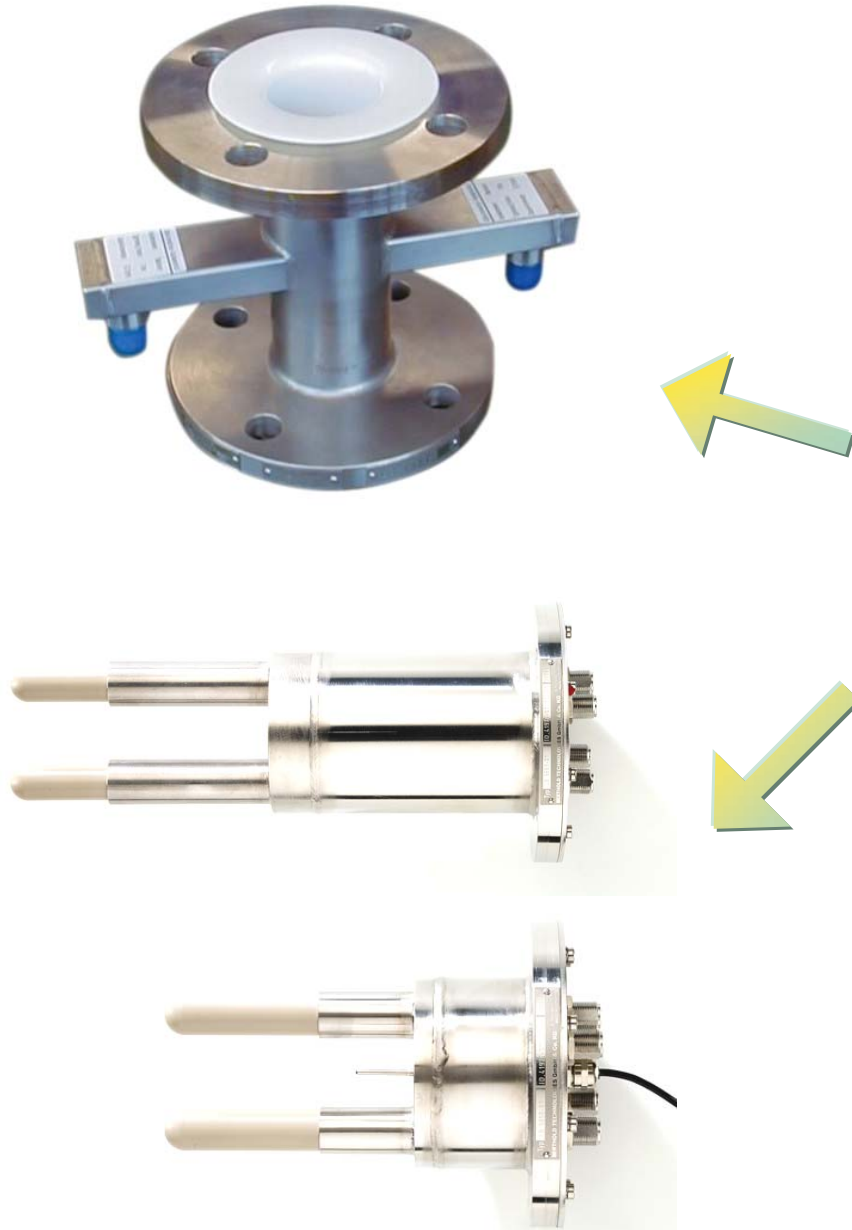




Micro-Polar™ LB 566

Process Control

Components





Evaluation Unit



Robust Stainless
Steel Housing

Graphic
Visualisation of
Process sections,
calibrations etc.

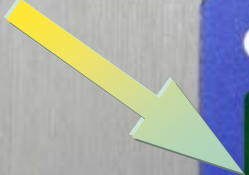
Clear
Status display
over 5 LED's



Large Graphic Display



Bar chart & marker
function



Large Measuring
Value Display



Automatic
Contrast Control

Evaluation Unit

In- and Outputs

- ▶ PT100 Connection
- ▶ 2 current inputs & 2 current outputs
- ▶ 3 digital inputs & 2 relays
- ▶ Data Interface RS 232



Evaluation Unit



Feature

- ▶ 4 products can be calibrated
- ▶ System-back-up over exchangeable memory module or interface
- ▶ Diagnosis Function → direct error identification
- ▶ Automatic calibration, without PC

Measurements in Pipelines

- ▶ Stainless steel with PTFE lining
- ▶ Various nominal widths

Benefits

- ✓ Contactless
- ✓ Without intervening measuring antenna
- ✓ Wear resistant, smooth lining
- ✓ Maintenance Free
- ✓ Representative measuring result



Measurement in process containers

- ▶ With or without flushing devices
- ▶ Robust and abrasion-proof construction

Benefits

- ✓ Very good flow behaviour, round geometry
- ✓ Efficient flushing technology
- ✓ Quick installation through standard flange





Start-Up

Simple and quick

1. Step: **System adjustment**

No input necessary. → completely automatic

2. Step: **Sample taking**

Input of lab values, automatic measuring value detection, selective sample choice → system supported

3. Step: **Calibration**

No input necessary → completely automatic

→ Low Maintenance!



Since 1949
Active in
Process Control

Worldwide
Sales & Service
Network



Decades of
Experience in
Microwave
technology

High Quality
From the Black Forest
ISO 9001



Measurement
of brown coal



Measurement of
woodchips



Competence in high
frequency technology



Measurement
of sugar



Measurement of
cream cheese



Micro-Polar LB 566

- ▶ developed for the process control
- ▶ replaces Micro-Fluid LB 455



Applications

Examples of successfully installed systems:

- ✓ Butter
- ✓ Cream cheese
- ✓ Marzipan
- ✓ Caramel
- ✓ Gypsum suspension
- ✓ Milk of lime
- ✓ Sewage sludge
- ✓ Silicic acid

High-frequency engineering

Advantages, News:

- ✓ Simple operation and start-up
- ✓ Modern Technology with two synthesizers
 - ✓ High accuracy and precision
- ✓ New, graphic display
 - ✓ Clear process information
- ✓ Standard stainless steel housing
 - ✓ High safety and hygiene conditions

