

Modular and Highly Cost-efficient from the Technology Leader

Analytical Measurement Technology for pH and Conductivity Measurements



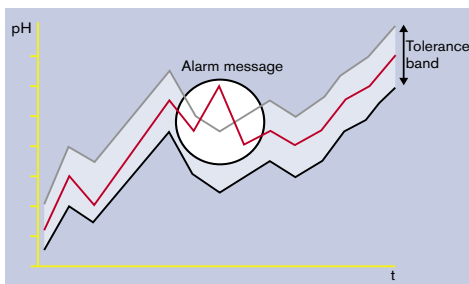
bürkert
FLUID CONTROL SYSTEMS

- **Modular transmitter concept for up to three different measurement parameters**
- **Maximum process reliability due to continuous sensor monitoring**
- **Glassless pH electrode with unsurpassed service life**
- **Substantially reduced calibration effort**
- **Four-pole conductivity electrode with extended measuring range**
- **Food-safe materials and process connections**

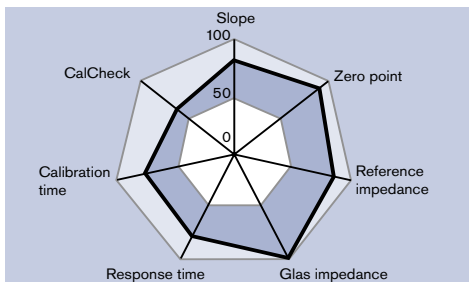
A Crucial Advance in Productivity

The pharmaceutical industry and food sector place very stringent requirements on the hygiene, reliability, ease of cleaning, design and visual appearance of installations. The special strengths of Bürkert's new measuring technology concept effortlessly meet such requirements. The Type 8285 measuring system is based on a modular hardware and software concept for fluid analysis and offers flexible solutions tailored precisely to the measurement task at hand.

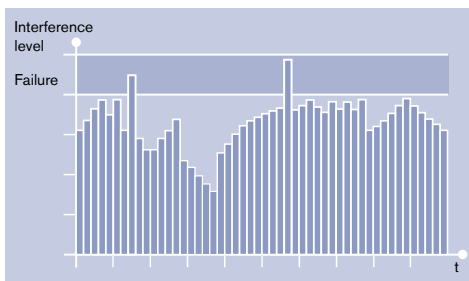
With all these advantages, the Type 8285 transmitter features a previously unknown level of functionality and reliability, while still incorporating an exceptionally high degree of operating convenience. A pin-sharp display ensures excellent readability under any lighting conditions. The integrated SMARTMEDIA™ card also allows you to easily save configurations, software updates and measurement data.



KI recorder



Sensor network diagram



ServiceScope®

Groundbreaking functions:

In addition to already outstanding features such as the universal 20 ... 253 V AC/DC power supply, 2-channel measured value recorder and sensor monitoring, the Type 8285 transmitter also encompasses other groundbreaking functions:



1. Early warning detection via the KI recorder

The KI recorder tracks the course of the process and triggers a signal if abnormalities occur. The primary measurement variable, e.g. pH or conductivity, and, parallel with this, the temperature are monitored constantly. Information is displayed graphically, including the process and limit value characteristics for both parameters.

2. Monitoring of batch processes by the KI recorder

The KI recorder records the course of the batch process (self-learning function). All further batches are then monitored for deviations with respect to the stored process characteristic.

Sensor Radar Chart for pH Measurement

Graphical representation of the current sensor parameters on the display in the form of a radar chart with slope, zero point, reference impedance, glass impedance, calibration timer setting and storage of calibration range measurements/data.

ServiceScope®

Monitors whether the pH input signal lies within the input modulation range. Display of the interference levels over time also allows the distinction between individual interference, periodic interference and broadband interference, thus greatly facilitating fault localization and troubleshooting.

Modularity

The special configurable modules are plugged into the housing and detected automatically. This lets them perform the relevant task without the need for further



configuration. Your advantage: extremely short times if different measuring methods are used. These sensors can be evaluated with the modular automatic detection concept.

COND Measurement Module

Input module for conductivity measurement with 2-electrode or 4-electrode sensors. Simultaneous measurement of electrical conductivity, specific resistivity, concentration, salinity and temperature.

pH Measurement Module

Input module for pH measurement with glass electrodes and enameled sensors. Simultaneous measurement of pH value/redox voltage or temperature.

Sensors for any Task

Ideal for pH measurement in the pharmaceutical and food sector: Type 8201 enameled pH electrode.

- Rugged, glassless pH electrode, pH-sensitive enamel
- Sterilizable (with steam) and CIP-compliant
- Long service life (up to 5 years) due to continuous electrolyte supply and excellent corrosion resistance
- Greatly reduced calibration effort

The optimal sensor for conductivity monitoring in CIP applications and for flushing operations: Type 8220 conductivity electrode.

- Measuring range 0.1 $\mu\text{S}/\text{cm}$ to 600 mS/cm allows precise measurement of CIP cleaning fluids and pure flushing water
- All materials (stainless steel 1.4435 and PEEK), process connections (Triclamp[®]) and surfaces (0.4 μm) are food-safe



Thinking of a system solution?

We can supply one at low cost.

Take conductivity monitoring in the ultra-pure water sector as an example. A solution consisting of individually tailored and optimized control loops. Bürkert sensors and "intelligent" process valves are efficiently combined on these systems. The communication stage

is based on optimum interfaces, and the local power feed to the sensor and the PID process controllers are integrated in the valve head, which produces cost-efficient local control loops that communicate with superordinate systems such as PLCs or DCSs via standard interfaces. And of course, this also applies if the variable concerns flow rate, filling level or pressure.

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