



pH/Rd combination electrodes

pH and redox combination electrodes with ceramic or glass fiber diaphragm for water and process measurement technology / pH and redox combination electrodes in glass or plastic shaft versions

The electrodes are high-quality sensors for professional applications in process and industrial measurement technology. These electrodes are known for their use of top-quality materials and components. They are designed as combined electrodes (the glass or metal electrode and the reference electrode are combined in one shaft). A temperature probe can also be integrated as an option, depending on the type.

Suitable versions are available to meet a wide variety of requirements:

- for industrial and communal water and wastewater engineering
- for measurements in suspensions and varnishes
- for measurements in low-ion media
- for high-alkaline, high-temperature and sterilization processes
- for media containing fluorides and low-temperature applications
- PRO version for the toughest operating conditions



APPLICATION

- Typical areas of application
- Industrial and communal, as well as general water and wastewater engineering
- Process measurements, electroplating plants, final inspections, neutralization plants
- Drinking and well water, boiler feed water
- Lightly polluted wastewater
- Two-chamber system for when electrode poisons (e.g. sulphides, cyanides) are present
- Low-temperature applications (-30 to +30 °C), e.g. measurement in cooling systems
- Media containing fluorides (hydrofluoric acid) up to 1000 mg/l HF
- High-alkaline applications (reduced alkaline error at pH values > pH 12)

FEATURES

- High-quality zirconium dioxide diaphragms (glass fiber diaphragm for plastic shaft)
- Cartridge-style conduction system with a reference electrolyte with no silver ions
- Pressure-resistant versions up to 10 bar (50 °C)
- Temperature range: up to -5 to +80 °C (90 °C for redox) or -30 to +30 °C (for TT version)
- Temperature probe integration options
- Salt reserve option for increasing service life in media with lower conductivity or in drinking water
- OTS HA glass for continuous measurements in the up to pH 14 range
- Redox versions with a platinum or gold tip up to ±2000 mV