

In-situ soil pH probe

Application*

Permanent in-situ measurement of the soil pH in laboratory and field applications, frost resistant, durable, low maintenance.

Principles of operation

The pH glass probe for soils works in combination with a separated reference electrode (Ag/AgCl) as a two probe electrode. It is therefore protected against accelerated aging due to losses of electrolyte solution via a diaphragm. The leakage of the electrolyte is prevented by imbedding the reference electrode in a so-called salt bridge with thickened KCl which has got the electrical contact to the soil. It is applicable together with ecoTech's redox electrode with the same special designed monitoring module and even in combination with the redox electrode in the same circuit.

Advantages:

- First pH electrode for in situ soil pH monitoring
- Permanent installation
- Laboratory and field application
- Frost resistant
- Low maintenance
- Long-term tested
- Special designed connection module for data-logging
- Combination with redox electrodes in the same circuit possible
- Protected against accelerated aging

Technical Data

- | | |
|------------------------|------------------------|
| • Range of temperature | – 10 ... + 40 °C |
| • Dimensions | Total length 110 mm |
| | Shaft length 80 mm |
| | Diameter 6 mm |
| • Cable length | 2 m, others as desired |

Options and accessories

- [Data logger enviLog](#) with GPRS data transmission
- Redox- and pH connecting module
- Reference electrodes for lab and field
- Protection sleeve (for field use)
- Shaft for pH electrodes

*) Utility patent: Online system for pH monitoring of soils.



pH probe in a transparent laboratory lysimeter wall, for continuous operation plugged to a Redox/pH-connection unit with an ecoTech datalogger enviLog