

Non-Invasive pH Sensors

| Specifications* | |
|------------------------------|---|
| Measuring range | 5.5 - 8.5 pH |
| Response time (t_{90})** | < 120 sec. |
| Resolution at pH = 7 | ± 0.01 pH |
| Accuracy at pH = 7 | ± 0.05 sensor spot calibration ± 0.10 sensor batch calibration |
| Drift at pH = 7 | < 0.005 pH per day (sampling interval of 1 min.) |
| Temperature range | from 5 °C to 50 °C |
| Properties* | |
| Compatibility | Aqueous solutions, ethanol, methanol (max. 10 % V/V), pH 2 - 10 |
| Cross-sensitivity | Reduced to ionic strength (salinity); a high concentration of small fluorescent molecules in the visible range can interfere |
| Storage stability | 18 months provided the sensor is stored in the dark |
| Calibration | pH spots are pre-calibrated; re-calibration is possible |
| Cleaning | pH spots are delivered either beta-irradiated or untreated; a second irradiation or ethylene oxide treatment is not recommended |

* provided pH spots are used without further handling in physiological solutions

** equilibrated sensor kept in well stirred solution at 37 °C