



| Code | HI1143B | HI1110 [] | HI1331B | HI1230 [] |
|-----------------------------|---|--|------------------------------|---|
| Description | refillable, combination pH electrode for fluoride applications | combination pH electrode | combination pH electrode | combination pH electrode |
| Reference | double, Ag/AgCl | single, Ag/AgCl | single, Ag/AgCl | double, Ag/AgCl |
| Junction / Flow Rate | ceramic, single / 15-20 µL/h | ceramic, single / 15-20 µL/h | ceramic, single / 15-20 µL/h | ceramic, single / 15-20 µL/h |
| Electrolyte | KCl 3.5M | gel | KCl 3.5M + AgCl | gel |
| Max Pressure | 0.1 bar | 0.1 bar | 0.1 bar | 2 bar |
| Range | pH: 0 to 10 | pH: 0 to 13 | pH: 0 to 13 | pH: 0 to 12 |
| Recommended Operating Temp. | -5 to 60°C (23 to 140°F) – HF | 0 to 80°C (32 to 176°F) – GP | 0 to 70°C (32 to 158°F) – GP | -5 to 70°C (23 to 158°F) – LT |
| Glass Type | HF (hydrofluoric acid resistant) | GP (general purpose) | GP (general purpose) | LT (low temperature) |
| Tip / Shape | spheric (dia: 9.5 mm) | spheric (dia: 9.5 mm) | spheric (dia: 7.5 mm) | spheric (dia: 7.5 mm) |
| Temperature Sensor | no | DIN model only | no | DIN and BNC + RCA model only |
| Amplifier | no | DIN model only | no | DIN model only |
| Body Material | glass | glass | glass | PEI |
| Cable | coaxial; 1 m (3.3') | coaxial; 1 m (3.3') | coaxial; 1 m (3.3') | coaxial; 1 m (3.3') |
| Recommended Use | samples with fluoride (max 2 g/L @ pH 2 and temperature < 60°C) | general purpose | specific for flasks | field applications, soil solution, photographic chemicals, laboratory (general use) |
| Connection | HI1143B BNC | HI1110B BNC HI11103 Quick Connect DIN | HI1331B BNC | HI1230B BNC HI12303 Quick Connect DIN HI1230Y BNC + RCA*** |

*** Thermistor with RCA connector