

Mettler Toledo InLab Electrodes

Rapid pH measurement




► Common characteristics mol/L

► Electrode type: Combined pH

► Reference system: ARGENTHAL™ with Ag⁺ ion barrier

► Reference electrolyte : KCl at 3 mol/l

► Storage: InLab® storage solution (Cat.number 031341)

| |  |  |  |  |  |  |
|-----------------------------|---|---|---|--|---|---|
| InLab | Routine | Pro Routine* | Pro-ISM routine | Science | Pro-ISM science | Versatile Pro |
| PH range | 0 to 14 | 0 to 14 | 0 to 14 | 0 to 12 | 0 to 12 | 0 to 14 |
| Temperature range | 0 to 100°C | 0 to 100°C | 0 to 100°C | 0 to 100°C | 0 to 100°C | 0 to 100°C |
| Temperature sensor | - | NTC 30 kΩ | NTC 30 kΩ | - | NTC 30 kΩ | NTC 30 kΩ |
| Type of membrane glass | HA | HA | HA | A41 | | U |
| Membrane resistance (25 °C) | < 600 MΩ | < 600 MΩ | < 600 MΩ | < 600 MΩ | < 600 MΩ | < 250 MΩ |
| Junction type | Ceramic | Ceramic | Ceramic | Glass body | Glass body | Ceramic |
| Electrolytic bridge | - | - | - | - | 3 mol/L KCl | - |
| Connection cable | S7 | Multipin | Multipin | S7 | MultiPin | 1.2 m BNC/RCA cable |
| Shaft material | Glass | Glass | Glass | Glass | Glass | Polysulfone |
| Shaft length (mm) | 120 | 120 | 120 | 120 | 170 | 120 |
| Shaft diameter (mm) | 12 | 13 | 14 | 16 | 17 | 18 |
| Cat. No. | 031041 | 031071* | 031139 | 031048 | 031135 | 031233 |
| € Excl. VAT | NC - | NC - | NC - | NC - | NC - | NC - |

* The InLab® Routine Pro electrode is also available with a Pt1000 probe

Maintenance-free pH measurement

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| |  |  |  |  |  |
|----------------------------|---|---|---|---|---|
| InLab | Expert | Expert Pro-ISM** | Power | Power Pro-ISM** | Easy |
| PH range | 0 to 14 | 0 to 14 | 0 to 12 | 0 to 12 | 0 to 14 |
| Temperature range | 0 to 100°C | 0 to 100°C | 0 to 130°C | 0 to 130°C | 0 to 80°C |
| Temperature sensor | - | NTC 30 kΩ | - | NTC 30 kΩ | - |
| Type of membrane glass | U | U | A41 | A41 | U |
| Membrane resistance (25°C) | < 250 MΩ | < 250 MΩ | < 600 MΩ | < 600 MΩ | < 250 MΩ |
| Junction type | Open | Open | Ceramic | Ceramic | Ceramic |
| Reference electrolyte | XEROLYT polymer | XEROLYT polymer | DPA Gel | DPA Gel | Gel |
| Connection cable | S7 | 1.2 m cable, BNC/RCA (Cinch) | S7 | MultiPin | S7 |
| Shaft material | PEEK | PEEK | Glass | Glass | Polysulfone |
| Shaft length (mm) | 120 | 120 | 120 | 170 | 120 |
| Shaft diameter (mm) | 12 | 13 | 15 | 16 | 17 |
| Cat. No. | 031047 | 031133 | 031039 | 031173 | 031199 |
| € Excl. VAT | NC - | NC - | NC - | NC - | NC - |

** available in non-ISM version

HA: glass with high alkalinity level and low alkalinity error level for high pH values and temperatures.
 U: Universal glass for standard applications and small membranes.
 A41: High strength glass, particularly resistant to aggressive chemicals, suitable for high temperatures.

LoT: low-temperature glass with low resistance. Suitable for samples with low temperature and ionic concentration
 HF: hydrofluoric acid resistant glass, for samples containing hydrofluoric acid (up to 1 g/l)
 ISM: Each ISM electrode offers data security and ease of handling.
 PEEK: Extremely robust shaft.