



Code	HI12300	HI12301	HI36180	HI36200
Description	combination, digital pH electrode	combination, digital pH electrode	refi <b>ll</b> able, ORP digital probe	ORP digital probe
Reference	double, Ag/AgCl	double, Ag/AgCl	double, Ag/AgCl	single, 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
Electrolyte	gel	gel	KCI 3.5M + AgCI	gel
Max Pressure	2 bar	2 bar	0.1 bar	2 bar
Range	pH:0 to 13	pH: 0 to 13	ORP: ±2000 mV	ORP: ±2000 mV
Recommended Operating Temp.	-5 to 70°C (23 to 158°F) - GP	-5 to 70°C (23 to 158°F) - GP	-5 to 100°C (23 to 212°F)	-5 to 70°C (23 to 158°F)
Tip/Shape	spheric (dia: 7.5 mm)	spheric (dia: 7.5 mm)	platinum pin	platinum pin
Temperature Sensor	yes	yes	yes	yes
Matching Pin	no	yes	no	no
Amplifier	yes	yes	yes	yes
Body Material	PEI	PEI	glass	PEI
Cable**	1 m (3.3')	1 m (3.3')	1 m (3.3')	1 m (3.3')
Recommended Use	field applications	field applications	laboratory general purpose	field applications
Connection	HI12300 3.5 mm jack	HI12301 3.5 mm jack	<b>HI36180</b> 3.5 mm jack	HI36200 3.5 mm jack



# Electrodes



#### Digital SMART Electrodes

The electrodes used with edge® are nearly as advanced as edge® itself. They feature a built-in microchip that stores sensor type, ID, and calibration information that is automatically retrieved by edge® once the electrode is plugged in.

Stored pH calibration information includes: calibrated buffers, date, time, offset and slope characteristics of the electrode. Conductivity calibration information includes: calibrated conductivity standards, date, time, and cell constant of the sensor. Dissolved oxygen calibration information includes: standards used for calibration, date, time, altitude and salinity correction.

These digital electrodes also feature an easy to plug in 3.5 mm connector so you never have to worry about the right angle or aligning pin settings.



## Sensor Check™ (HI12301 and HI11311 only)

When used with edge® compatible electrodes equipped with a matching pin, edge® checks the impedance of the pH measuring electrode in real-time to notify you in the event of glass breakage. During calibration, Sensor Check™ technology checks the state of the junction. The reference junction is also evaluated and reported on the display.

#### pH Electrodes



Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor

Recommended for laboratory and general purpose



#### HI12300

Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor

Recommended for field applications



#### HI10530

Triple ceramic, double junction, glass body, refillable pH electrode with conic tip and temperature sensor

Recommended for fats and creams, and soil samples



Single ceramic, double junction, glass body, refillable pH

Single ceramic, double junction, gel filled, PEI body, pH

electrode with temperature sensor and matching pin

Recommended for field applications

electrode with temperature sensor and matching pin

Recommended for laboratory and general purpose

Recommended for paints, solvents, strong acids and bases, high conductivity samples, and Tris buffer



#### HI10480

Double reference, open junction, Clogging Prevention System (CPS), glass body pH electrode with temperature sensor

Recommended for wine analysis



#### FC2100

Double reference, open junction, viscolene electrolyte, glass body pH electrode with conic tip and temperature sensor

Recommended for dairy analysis

HI12301

FC2320 Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conic tip and temperature sensor

Recommended for meat applications



#### FC2020

Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conic tip and temperature sensor

Recommended for dairy analysis

# Conductivity Probe



#### HI763100

Conductivity probe with temperature sensor Recommended for general purpose

#### Dissolved Oxygen Electrode



#### HI764080

Dissolved oxygen electrode with temperature sensor Recommended for general purpose



Simply connect each probe via the 3.5 mm jack, digital SMART Electrodes are automatically recognized



# Electrodes



#### Digital SMART Electrodes

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Stored pH calibration information includes: calibrated buffers, date, time, offset and slope characteristics of the electrode. Conductivity calibration information includes: calibrated conductivity standards, date, time, and cell constant of the sensor. Dissolved oxygen calibration information includes: standards used for calibration, date, time, altitude and salinity correction.

These digital electrodes also feature an easy to plug in 3.5 mm connector so you never have to worry about the right angle or aligning pin settings.



## Sensor Check™ (HI12301 and HI11311 only)

When used with edge® compatible electrodes equipped with a matching pin, edge® checks the impedance of the pH measuring electrode in real-time to notify you in the event of glass breakage. During calibration, Sensor Check™ technology checks the state of the junction. The reference junction is also evaluated and reported on the display.

#### pH Electrodes



Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor

Recommended for laboratory and general purpose



#### HI12300

Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor

Recommended for field applications



#### HI10530

Triple ceramic, double junction, glass body, refillable pH electrode with conic tip and temperature sensor

Recommended for fats and creams, and soil samples



Single ceramic, double junction, glass body, refillable pH

Single ceramic, double junction, gel filled, PEI body, pH

electrode with temperature sensor and matching pin

Recommended for field applications

electrode with temperature sensor and matching pin

Recommended for laboratory and general purpose

Recommended for paints, solvents, strong acids and bases, high conductivity samples, and Tris buffer



#### HI10480

Double reference, open junction, Clogging Prevention System (CPS), glass body pH electrode with temperature sensor

Recommended for wine analysis



#### FC2100

Double reference, open junction, viscolene electrolyte, glass body pH electrode with conic tip and temperature sensor

Recommended for dairy analysis

#### FC2320

HI12301

Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conic tip and temperature sensor

Recommended for meat applications



#### FC2020

Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conic tip and temperature sensor

Recommended for dairy analysis

# Conductivity Probe



#### HI763100

Conductivity probe with temperature sensor Recommended for general purpose

#### Dissolved Oxygen Electrode



#### HI764080

Dissolved oxygen electrode with temperature sensor Recommended for general purpose



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# **Electrodes**



#### Digital SMART Electrodes

The electrodes used with edge® are nearly as advanced as edge® itself. They feature a built-in microchip that stores sensor type, ID, and calibration information that is automatically retrieved by edge® once the electrode is plugged in.

Stored pH calibration information includes: calibrated buffers, date, time, offset and slope characteristics of the electrode. Conductivity calibration information includes: calibrated conductivity standards, date, time, and cell constant of the sensor. Dissolved oxygen calibration information includes: standards used for calibration, date, time, altitude and salinity correction.

These digital electrodes also feature an easy to plug in 3.5 mm connector so you never have to worry about the right angle or aligning pins.



# Sensor Check™ (HI12301 and HI11311 only)

When used with edge® compatible electrodes equipped with a matching pin, edge® checks the impedance of the pH measuring electrode in real-time to notify you in the event of glass breakage. During calibration, Sensor Check™ technology checks the state of the junction. The reference junction is also evaluated and reported on the display.

#### pH Electrodes



#### HI11310

Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor

Recommended for laboratory and general purpose



#### HI12300

Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor

Recommended for field applications



#### HI10530

Triple ceramic, double junction, glass body, refillable pH electrode with conical tip and temperature sensor Recommended for fats and creams, and soil samples



#### HI10480

Double reference, open junction, Clogging Prevention System (CPS), glass body pH electrode with temperature sensor

Recommended for wine analysis



#### FC2100

Double reference, open junction, viscolene electrolyte, glass body pH electrode with conical tip and temperature sensor

Recommended for dairy analysis

# Conductivity Probe



#### HI763100

Conductivity probe with temperature sensor Recommended for general purpose



Single ceramic, double junction, glass body, refillable pH

electrode with temperature sensor and matching pin

Recommended for laboratory and general purpose



#### HI10430

HI12301

Triple ceramic, double junction, glass body, refillable pH electrode with temperature sensor

Recommended for paints, solvents, strong acids and bases, high conductivity samples, and Tris buffer



#### FC2320

Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conical tip and temperature sensor

Recommended for meat applications



#### FC2020

Double reference, open junction, viscolene electrolyte, PVDF body pH electrode with conical tip and temperature sensor

Recommended for dairy analysis

# Dissolved Oxygen Electrode



#### HI764080

Dissolved oxygen electrode with temperature sensor Recommended for general purpose



Simply connect each probe via the 3.5 mm jack, digital SMART Electrodes are automatically recognized

