



Probe selection guide

The Atlas Scientific probe selection guide is a valuable tool for individuals and professionals who work with probes in fields such as chemistry, environmental monitoring, aquaculture, hydroponics, and more.

This guide will assist you in selecting the most appropriate probe for their specific application, based on a variety of factors.

pH Probes



Micro ENV-10-pH	Mini ENV-20-pH	Consumer ENV-30-pH	Lab ENV-40-pH	Spear Tip ENV-45-pH	Industrial ENV-50-pH	Industrial no Temp ENV-50-pH-NT	Research ENV-60-pH
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 **Chemical Resistance**

Extreme	High	Low	High	High	Extreme	Extreme	Extreme
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 **Housing Strength**

9	8	4	6	8	10	10	8
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 **Min / Max Temperature**

-5 – 90° celsius	-5 – 99° celsius	1 – 60° celsius	-5 – 99° celsius	-5 – 110° celsius	1 – 99° celsius	1 – 99° celsius	-5 – 99° celsius
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 **Max Pressure**

150 PSI	110 PSI	50 PSI	100 PSI	100 PSI	100 PSI	100 PSI	120 PSI
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 **Life span**

~6–12 months	~2 years	~12–18 months	~2.5+ years	~2.5+ years	~4+ years	~4+ years	~3–5 years
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 **Time before Recalibration**

~1 month	~1 year	~3 months	~1 year	~1 year	~1 year	~1 year	~1.5 years
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 **Sensing range**

0–14	0–14	2–13	0–14	0–14	0–14	0–14	-1.6–15.6
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ORP Probes



Micro
ENV-10-ORP



Mini
ENV-20-ORP



Consumer
ENV-30-ORP



Lab
ENV-40-ORP



Industrial
ENV-50-ORP

 **Chemical Resistance**

High

High

Low

High

Extreme

 **Housing Strength**

9

8

4

6

10

 **Min / Max Temperature**

-5 – 90°
celsius

-5 – 99°
celsius

1 – 60°
celsius

1 – 99°
celsius

1 – 99°
celsius

 **Max Pressure**

150
PSI

110
PSI

50
PSI

100
PSI

100
PSI

 **Life span**

~6–12
months

~2
years

~12–18
months

~2+
years

~4+
years

 **Time before Recalibration**

~1
month

~1
year

~3
months

~1
year

~1
year

 **Sensing range**

-2000 – 2000
mV

-2000 – 2000
mV

-1100 – 1100
mV

-2000 – 2000
mV

-2000 – 2000
mV

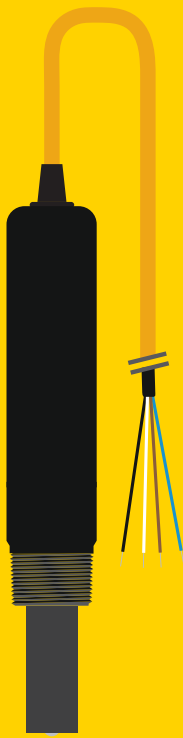
Dissolved Oxygen Probes



Mini
ENV-20-DOX



Lab
ENV-40-DOX



Industrial
ENV-50-DO



Chemical
Resistance

High

High

Extreme



Housing
Strength

7

8

10



Min / Max
Temperature

1 – 50°
celsius

1 – 60°
celsius

1 – 99°
celsius



Max
Pressure

100
PSI

500
PSI

300
PSI



Life span

~2.5
years

~4
years

~4
years



Time before
Recalibration

~6
months

~1
year

~1
year



Sensing range

1 – 50
mg/L

1 – 100
mg/L

1 – 100
mg/L

Conductivity Probes



K 0.1
ENV-40-EC-K0.1



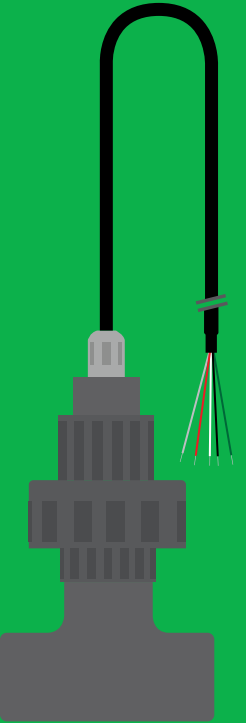
Mini K 1.0
ENV-20-EC-K1.0



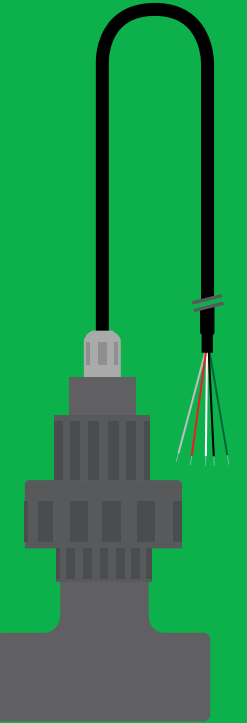
K 1.0
ENV-40-EC-K1.0



K 10
ENV-40-EC-K10



Industrial K 0.1
ENV-50-EC-0.1



Industrial K 1.0
ENV-50-EC-1.0

 **Chemical Resistance**

High

High

High

High

Extreme

Extreme

 **Housing Strength**

7

8

7

6

10

10

 **Min / Max Temperature**

1 – 110°
celsius

1 – 110°
celsius

1 – 110°
celsius

1 – 110°
celsius

0 – 60°
celsius

0 – 60°
celsius

 **Max Pressure**

500
PSI

500
PSI

500
PSI

200
PSI

200
PSI

200
PSI

 **Life span**

~10
years

~10
years

~10
years

~10
years

~10
years

~10
years

 **Time before Recalibration**

~10
years

~10
years

~10
years

~10
years

~10
years

~10
years

 **Sensing range**

0.07 – 50,000
µS/cm

5 – 200,000
µS/cm

5 – 200,000
µS/cm

10 – 1
µS/cm S/cm

0.07 – 50,000
µS/cm

5 – 200,000
µS/cm

Temperature Probes



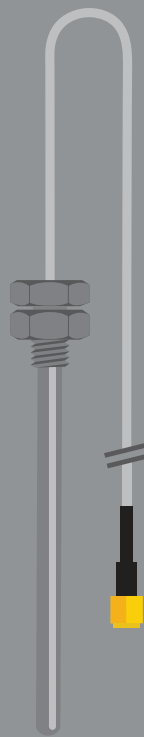
Micro
ENV-10-TMP



PT-1000
PT-1000



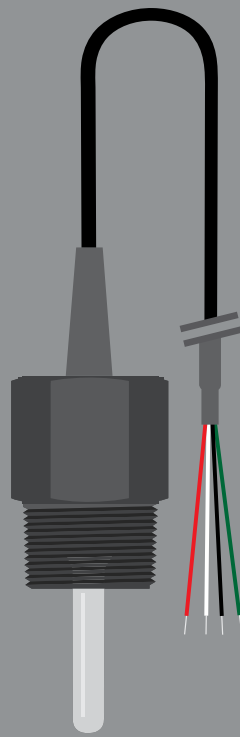
Standard
PT-STD



Threaded
PT-THRD



Spike Tip
PT-SPIKE



Industrial
ENV-50-TMP

 Chemical Resistance

Extreme

Medium

Medium

Medium

Medium

Medium

 Housing Strength

9

7

7

7

7

10

 Probe type

Class A
platinum, RTD

Class A
platinum, RTD

Class B
platinum, RTD

Class B
platinum, RTD

Class B
platinum, RTD

Class A
platinum, RTD

 Cable length

61cm

81cm

1 Meter

1 Meter

1 Meter

3 Meters

 Connector

Male SMA

Male BNC

Male SMA

Male SMA

Male SMA

Tinned leads

 Life span

~15
years

~15
years

~15
years

~15
years

~15
years

~15
years

 Sensing range

-200 – 200°
celsius

-200 – 850°
celsius

-50 – 200°
celsius

-50 – 200°
celsius

-50 – 200°
celsius

-55 – 220°
celsius