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Industrial pH Electrode - Armor Casing

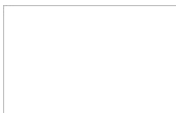
SKU:FIT0348 Brand:Other Reward Points: 495

* Model:

Quantity:

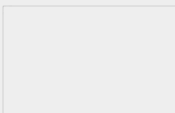
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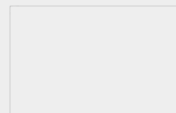
Industrial pH Electrode - Armor Casing

+



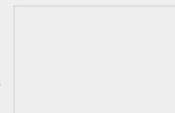
Gravity: Analog Arduino

+




Gravity: Kit For Arduino

+



Gravity: Analog pH

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INTRODUCTION

This pH combination electrode is made of sensitive glass membrane with low impedance. It can be used in a variety of pH measurements with fast response, good thermal stability. It has the good reproducibility, difficult to hydrolysis, and basically eliminate the alkali error. In 0 to 14pH range, the output voltage of the electrode is linear. The reference system which consists of the Ag/AgCl gel electrolyte salt bridge has a stable half-cell potential and excellent anti-pollution performance. The ring PTFE membrane is not easy to be clogged, so the electrode is suitable for long-term online detection.

Note: This is a probe **only**, and it could be an upgrade part for [Analog pH Meter \(SEN0161\)](#). If you need an industrial long-term pH sensor directly, please check [Industrial pH Meter Kit Pro \(SEN0169\)](#). And the output voltage feedback is from 0 to 5V to indicate pH value from 0 to 14.

APPLICATIONS

The electrode is suitable for all kinds of printing, circuit board factory, waste water containing chromium and other industrial and domestic sewage pH monitoring.

SPECIFICATION

- Length (with protective cover): 17.7cm(6.97")
- Diameter: 2.74cm(1.08")
- Wire Length: 5m(196.85")
- Connector: BNC
- Measuring Range: 0-14pH
- Measuring Precision: $\leq 0.02\text{pH}$
- Suitable Temperature: 0-60°C
- Response Time: 10sec
- Drift: $\leq 0.02\text{PH}/24\text{hours}$
- Resistance of Sensitive Membrane: $\leq 200 \times 10^6 \Omega$
- Slope: $\geq 95\%$
- Electrode's Equipotential Point: $7 \pm 0.5\text{PH}$

DOCUMENTS

- [WiKi Doc](#)

SHIPPING LIST

- H-101 pH electrode ×1
- pH electrode manual ×1

REVIEW

FAQ

89 Comments

DFRobot

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Cho • 4 months ago


—

👍

Hello, I'm testing pH sensor(FIT0348). but I don't know if the sensor is OK.
The sensor output range seems strange.
For example, at pH 4.0, it should be 177mV, but only 5mV comes out.
and at pH 10.0, -3mV comes out.
Is this correct?

⬆

• Reply • Share >

⬇
- 

Miftark • 10 months ago


—

👍

Hi.. i have just installed Sen0189 for a week. And now it's not functioned well (pH value detected stable at 16). Any ideas for me to troubleshoot this ?

⬆

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⬇
- 

Saromanos VTrP • a year ago


—

👍

Hello!
I need the most accurate sensor to connect to the Arduino.
You have a version of the sensor "Industrial pH Electrode - Armor Casing" on the site with an accuracy of <0.02pH, but it says there, this is a sensor intended for modification Analog pH Meter (SEN0161) . This means that in order to use an accurate sensor, do I need to buy a regular sensor as well?
In a similar Pro version, the accuracy is already for some reason $\pm 0.1\text{pH}$.
I find it difficult which option suits me. Either you have a typo that the pro version has an accuracy of 0.1, or I need to buy two sensors at once, Analog pH Meter (SEN0161) and Industrial pH Electrode - Armor Casing.
And can i connect Industrial pH Electrode - Armor Casing to Arduino?
Can you help me please?

⬆

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⬇
- 

Samet Kocatepe • a year ago

—

👍

Hi Dfrobot team
can i use this sensor with "Analog pH Sensor/Meter Kit V2 "

Regards.

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|
v



DFRobot Support Mod → Samet Kocatepe · a year ago

Hi,
Sorry for the late reply
It's OK

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Samet Kocatepe · a year ago

hi all,
can i use this sensor with "Analog pH Sensor/Meter Kit V2 "

Will it meet SPECIFICATIONS as written in above.?

regards.

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Ruy Garcia · a year ago

have you ever had issues with customs when shipping this probe to Mexico? (I ask because of the liquid it has)

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DFRobot Support Mod → Ruy García · a year ago

Sorry
We can't ship this probe to Mexico with liquid.

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Alessandro Meloni · a year ago

Hello everybody,
is the probe/electrode waterproof? I mean, I need to install it on field in wetted soil that is supposed to be exposed to the heavy rain: is it with some water protection class like IP67?
Thank you in advance for the support!

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DFRobot Support Mod → Alessandro Meloni · a year ago

Sorry.
It can't .
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Nico Minsch · 2 years ago

I ordered the industrial PH sensor, i broke the BNC Connector though. Is it possible to buy one BNC Connector by itself?

^ · Reply · Share >
|
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DFRobot Support Mod → Nico Minsch · 2 years ago

Hey Nico,
Sorry to hear that. We do not sell standalone BNC connectors. However, if you product is still within its warranty period, you can submit an RMA request and we can further assist you that way.

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Edvardas Smilgevicius · 2 years ago

Ordered PH sensor, got without storage fluid in the protective cap - all fluid was leaked. Seller only suggested to soak PH sensor in the 3.3mol/L potassium chloride solution which i do not have. I suggest not to buy PH sensor from dfrobot because you can get unconditional item.



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DFRobot Support Mod → Edvardas Smilgevicius • 2 years ago

Hi, sorry for your inconvenience. Due to the prohibition of liquid in air transportation, liquid in the cap is dumped by intention! You can buy the 20mL 3.3mol/L potassium locally.

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Gabriel Tickle Dits Draughon • 2 years ago

Hi,

Do you sell the ph meter V2.0 as a standalone and not in a package/kit? if so could you provide me the link? or do you sell this probe (Industrial pH Electrode - Armor Casing) in a kit with the V2.0? I see it packaged in a kit with V1.0 but that wont work for me my system is 3.3volts.

Thanks!

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DFRobot Support Mod → Gabriel Tickle Dits Draughon • 2 years ago

You can purchase PH V2.0 here <https://www.dfrobot.com/product-102...>

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Gabriel Tickle Dits Draughon → DFRobot Support • 2 years ago

Two things -

- 1: the supplied link takes me to a package/kit with a non-industrial (laboratory grade) probe that is not needed for my project , I am wondering if I can just buy the PH V2.0 separately or in package with the industrial probe.
- 2: The PH meter on that link is the PH V1.0, its not even the PH V2.0

To clarify I want the Industrial grade pH probe AND the PH V2.0. It seems you only sell the industrial probe by itself or in a kit with the PH V1.0. and I only see the PH V2.0 sold in a package with a with a non-industrial (laboratory grade) probe.

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DFRobot Support Mod → Gabriel Tickle Dits Draughon • 2 years ago

We sell them all as you can see. If you need a industrial version, we have kits for sale <https://www.dfrobot.com/product-111...>

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Triet Dao • 2 years ago

I want to buy this probe with the pH meter v2 but can not find the product link (only probe + pH meter 1.1). Can you help?

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DFRobot Support Mod → Triet Dao • 2 years ago

Do you mean this industrial pH sensor? <https://www.dfrobot.com/pro...>

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Triet Dao → DFRobot Support • 2 years ago

the image is still using v1.1. So does it come with v2.0?

^ • Reply • Share ›



DFRobot Support Mod → Triet Dao • 2 years ago

This product only include the probe, it doesn't come with the other part of pH meter. If you want to use with pH meter 2.0, you will have to buy another pH meter v2.0, and change the probe with this.

^ • Reply • Share ›



Triet Dao → DFRobot Support • 2 years ago

In the link you provided, does it come with pH meter v2.0?

<https://www.dfrobot.com/pro...>

^ • Reply • Share ›



DFRobot Support Mod → Triet Dao • 2 years ago

That one comes with pH meter v1. v1 and v2 are two separate products, not just iteration.

^ • Reply • Share ›



Triet Dao → DFRobot Support • 2 years ago

I think v2 is an upgrade because its input voltage range and no potentiometer. That's why I want an option to buy this probe + v2 board. The SEN0169 is using this probe + v1 right?

^ • Reply • Share ›



DFRobot Support Mod → Triet Dao • 2 years ago

Yes, you are right.

^ • Reply • Share ›



Gianni Barbato • 2 years ago

hi, what kind of plastic is the probe made of (PET, PP, etc.). I would like to use it to monitor the pH of a milk tank. Can I dip it in milk without contaminating it?

thanks

^ • Reply • Share ›



DFRobot Support Mod → Gianni Barbato • 2 years ago

you should take off the protective cover before measuring, and the probe is stainless steel.

you can use it to monitor the pH of a milk tank, but it's very difficult to clean and solution causes the probe life to be shortened

^ • Reply • Share ›



Gianni Barbato → DFRobot Support • 2 years ago

Thanks , but how can i remove the cover? which part we can remove. Thanks



^ • Reply • Share ›



DFRobot Support Mod → Gianni Barbato • 2 years ago

The transparent plastic cover with thread.

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Nicholas Mitchell → DFRobot Support • 4 months ago

do you sell the transparent plastic covers by themselves?

^ • Reply • Share ›





Gianni Barbato • DFRobot Support • 2 years ago

sorry but I had understood that the black part was in plastic and could be removed. So all the black part is in stainless steel? Can one immerse in milk without contaminating it? If it is not all steel, what is it made of, can it be introduced into milk? In this case, what is the stainless steel part? can you help me with the photo? thank you so much

^ • Reply • Share >



DFRobot Support Mod → Gianni Barbato • 2 years ago

We do not recommend testing in milk as the viscous solution is not easy to clean and will shorten the life. If about the shape, you can refer to this link: <https://www.dfrobot.com/pro...>

1 ^ • Reply • Share >



Aye Chan → DFRobot Support • a year ago

Hi! Can I also test in coca cola or pepsi?

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DFRobot Support Mod → Aye Chan • a year ago

Right!

How interesting it is.

^ • Reply • Share >



nihi34 • 2 years ago

Hi, Is this probe compatible with board ph Meter V2.0 found in SEN0161-V2 kit? I'm asking because our system can provide only 3.3V.

^ • Reply • Share >



DFRobot Support Mod → nihi34 • 2 years ago

Yes, it is compatible with SEN0160-V2.

^ • Reply • Share >



Gabriel Tickle Dits Draughon → DFRobot Support • 2 years ago

Hi,

Do you sell the ph meter V2.0 as a standalone and not in a package/kit? if so could you provide me the link? or do you sell this probe (Industrial pH Electrode - Armor Casing) in a kit with the V2.0? I see it packaged in a kit with V1.0 but that wont work for me my system is 3.3volts.

Thanks!

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abc • 2 years ago

Hi,

Is this probe suitable to be permanently immersed in water?

I intend to use it to monitor the pH of a swimming pool where it will be totally immersed in water.

^ • Reply • Share >



DFRobot Support Mod → abc • 2 years ago

You can immerse in water for a long time, but you still need to calibrate it every half an year.

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Matias Alvarez • 2 years ago

Hello, what is the protection IP of the sensor?

^ • Reply • Share >



Mark • 3 years ago

Hi, if I were to order 8 of these for delivery to the UK what would the lead-time be? Thanks!

^ • Reply • Share >




DFRobot Support Mod → Mark • 3 years ago

Depends on the shipping method, normally is 3-5 days.

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Open Spirulina

• 3 years ago


Good morning, thanks you for your products! They are pretty good,

I'm using this ph electrode in 9-10 pH value, how often should I recalibrate it? Do you know around how will it last?

^

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Nam Tran Pham


➔ Open Spirulina • 3 years ago

Hello, are you setting up a system for growing spirulina? I am doing the same, but I am lacking the basic know-how. Could you please help?

^

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Open Spirulina


➔ Nam Tran Pham • 3 years ago

yes, i am. you could contact by info @ openspirulina .com

^

• Reply • Share >

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DFRobot Support


Mod ➔ Open Spirulina • 3 years ago

You can calibrate it every half an year.

^

• Reply • Share >

↓



Jérôme Prunier


• 3 years ago

I used one since one year. Should I replace the electrode? Can I buy one on your website? Thx,

^

• Reply • Share >

↓



DFRobot Support


Mod ➔ Jérôme Prunier • 3 years ago

Is it still good to use, you can buy it directly from this website.

^

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Wenda Ong

• 3 years ago


Hi! can i know what does the A stands for on the pH meter?


^


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