

SM2123M

Industrial online current type pH sensor

User Manual

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SM2123M using the standard DC4-20mA current output signal,easy access to PLC, DCS and other instruments or systems for monitoring pH state quantities.The internal use of high -precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
Brand	SONBEST
PH range	4~14
PH accuracy	±0.5
Applicable temperature range	0 to 65 ° C
Communication Interface	DC4~20mA
Power	DC12~24V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size



Wiring instructions

In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the

core color is for reference.

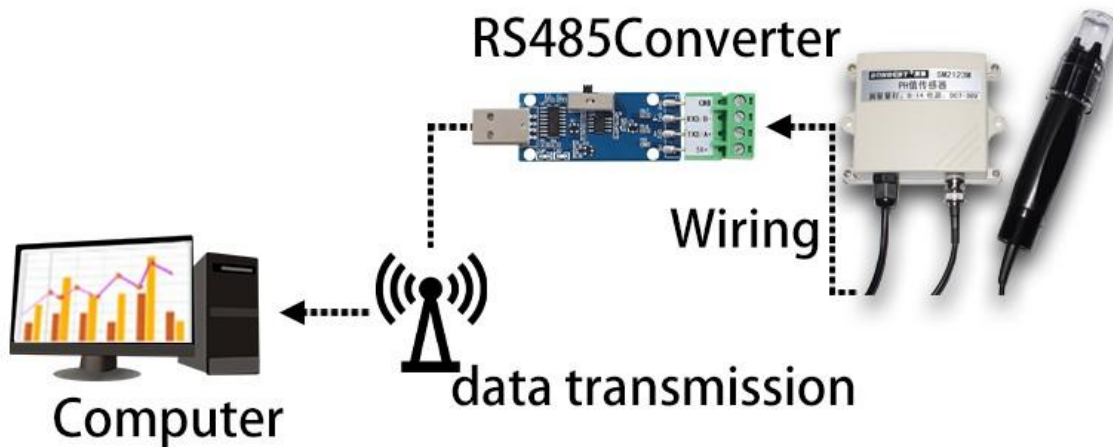
How to use?

Liquid pH sensors are widely used in wastewater treatment, purified water, circulating water, boiler water and other systems, as well as electronic, aquaculture, food, printing and dyeing, electroplating, pharmaceutical, fermentation, chemical and other fields of pH detection, in Environmental monitoring and remote systems such as surface water and pollution source discharges



Application solution

■ RS485 Connection mode



Product List



Liquid pH sensor
(without converter, without
power supply)



Certificate

Precautions

- 1、电极在测量前必须用已知 PH 值的标准缓冲溶液进行定为校准，为取得更正确的结果，已知 PH 值要

可靠，而且其 PH 值愈接近被测值愈好。

2、取下电极保护套后要注意，在塑料保护栅内的敏感玻璃泡不与硬物接触，任何破损和擦毛都会使电极失效。

3、测量完毕，不用时应将电极保护套套上，保护套内应放少量 3.3mol/L 氯化钾溶液，以保持电极球泡的湿润。

4、电极的引出端，必须保持清洁和干燥，绝对防止输出两端短路，否则将导致测量结果失准或失效。

5、电极避免长期浸在蒸馏水中或蛋白质溶液和酸性氟化物溶液中，并防止和有机硅油脂接触。

6、电极经长期使用后，如发现梯度略有极爱内地，则可把电极下端浸泡在 4%HF（氢氟酸）中 3-5 秒钟，用蒸馏水洗净，然后在氯化钾溶液中浸泡，使之复新。

7、被测溶液中如含有易污染敏感球泡或堵塞液接界的物质，而使电极钝化，其现象是敏感梯度降低，读数不准。如此，则应根据污染物质的性质，以适当溶液清洗，使之复新。

8、凡需测量能溶解聚碳酸树脂的有机溶剂，请选用 PH 符合电极中玻璃外壳型号电极。

注：选用清洗剂时，如能溶解聚碳酸树脂的清洗液，如四氯化碳，三氯乙烯，四氢呋喃等，则可能把聚碳酸树脂溶解后，涂在敏感玻璃球泡上，而使电极失效，请慎用！

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