Sentron

MiniFET pH probe

9202-010

Sentron SI series pH probe pH 0...14 0...80 °C

Compact ISFET pH probe

Sentron offers a comprehensive line of high quality meters and probes for glass-free pH measurement. The SI meter and probe line is created around our proprietary ISFET pH sensor that offers accurate and reliable pH measurement for demanding applications.

The MiniFET pH probe is a compact probe designed for stand alone integration into a process or placement in the field. Its short barrel allows it to be mounted without much protrusion from an apparatus or in situations where a low profile is required. Applications for which Sentron's customers use the MiniFET pH probe include monitoring of (bio) chemical processes and water quality monitoring.

ISFET = glass-free

The MiniFET probe contains Sentron's non-glass ISFET (Ion Sensitive Field Effect Transistor) pH sensor. This sensing component is Sentron's proprietary design and has been improved continuously over the past 15 years.

In contrast to conventional glass pH electrodes, ISFET pH sensors are robust and do not require wet storage. This makes them well suited for many environmental, food and pharmaceutical applications. Even in areas like education or in laboratories, where glass pH electrodes can be used, ISFET pH measurement technology offers a much more durable and reliable solution.

Fast response time

ISFET pH sensors are fast because they measure directly at the surface. Sentron's SI series probes can give stable readings in less than 5 seconds for almost all samples.

Extremely robust

Sentron probes are built from high quality ABS, PVC and PEEK materials. They are resistant to many aggressive solutions and can withstand rugged use. At the same time, they are light weight and easy to handle.

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The probes have a polymer body snap-on type connector. Unlike DIN and bayonet type connectors, there are no moving parts nor screw thread that can be damaged.

The position of the ISFET and reference electrode has been designed to be clog and pollution resistant. In the event debris has accumulated on the sensor it can be easily cleaned with water and a brush.

Sentron probes are provided with protection against Electrostatic Discharge (ESD) ensuring measurements continue even in harsher environments.

Compact

The location of the ISFET and reference electrode, combined with a reduced barrel diameter and a flattened "head" enables the MiniFET to perform pH measurements of liquids with limited depth or in small pipes.

Comprehensive probe line

The MiniFET is part of a comprehensive probe line that meets a broad range of pH measurement needs.

ConeFET: 3280-010	Robust general purpose probe.
CupFET: 3200-010	Probe for measurements of small liquid samples.
LanceFET: 2270-010	Steel tipped probe for penetration and measurement of non-liquids such as meat and fruit.
LanceFET+H: 2274-010	Equal to LanceFET but with large handle for additional grip.
MiniFET: 9202-010	Compact and sturdy probe with a 5mm (0.2") diameter barrel, ideal for embedded application.
MicroFET: 9270-010	Laboratory probe with a very small 3mm (0.1") diameter barrel that fits test tubes and mini-cuvettes.

Contact:

Highlights

• ISFET = glass-free

Fast response time

• Extremely robust

Compact

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About Sentron

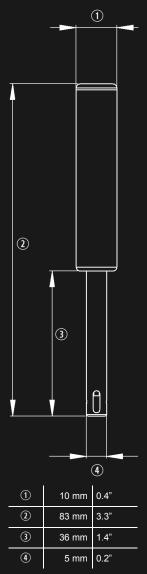
Sentron is an innovative Dutch technology company specialized in the development and production of small sensors for medical and analytical applications. The company leverages more than 15 years of experience to develop and produce its high quality ISFET pH and pressure sensors. Peripheral equipment for the sensors, such as measurement instruments, are designed, developed and produced in house as well.

Sentron is ISO 13485 and 9001:2008 certified for the development and manufacturing of sensors for the determination of physical and chemical values in the field of engineering and life science.

Please contact one of our distributors or visit our website for more information about the company, potential applications and for probes and accessories available for this meter.

Specifications

	ConeFET 3280-010	CupFET 3200-010	LanceFET 2270-010	LanceFET+H 2274-010	MiniFET 9202-010	9270-010
General description						
General fluids (low viscosity)	1	1	1	~	~	~
Semi fluids (low to medium viscosity)			1		~	
astes and semi solids (medium to high viscosity)						
Piercing applications (normal to medium force penatration)						
(high force and stabbing penatration)			•	*		
General beakers and containers	1	1	1		1	1
Deep containers (up to 140 mm)				•	•	
Small sample volumes (one drop ~20 µl)	•		•			
larrow vials / test tubes (as small as Ø 3 mm)		•				
anow vals / test tubes (as small as 6 5 mm)						·
ЪН						
ensor		Glass-free Ion	Sensitive Field Effe	ect Transistor (ISFET)	semiconductor	
ange	pH 0.0014.00					
rift	less than 0.14 pH/24h					
Reference system						
ype			non-flow			non-flow
Diafragm			porous PTFE			ceramic
eference solution			gelled KCl			gelled KCl
-						
Temperature						
ensor PT1000						
lange	080 °C (32176°F)					
Physical properties						
ſφ	B		8 8	B		ß
Dimensions						
Total length	183 mm (7.2")	183 mm (7.2")	190 mm (7.5")	223 mm (8.8")	83 mm (3.3")	157 mm (6.2")
Barrel length (immersible)	137 mm (5.4")	134 mm (5.3")	144 mm (5.7")	52 mm (2.0")	36 mm (1.4")	110 mm (4.3"
Barrel diameter	10 mm (0.4")	10 mm (0.4")	10 mm (0.4")	10 mm (0.4")	5 mm (0.2")	3 mm (0.1"
Cable length	1600 mm (63")	1600 mm (63")	1600 mm (63")	1600 mm (63")	1600 mm (63")	1600 mm (63")
Aaterials						
Tip/barrel	PEEK / ABS		PEEK / ABS + Stainless steel point		PEEK / ABS	PEEK
Handle and strain relief	PVC		PVC		PVC	PEEK
Cable	F	VC	1	PVC	PVC	PVC
Cable	35 gr. (1.2 oz) 35 gr. (1.2 oz) 35 gr. (1.2 oz) 165 gr. (5.8 oz) 8 gr. (0.3 oz) 8 gr. (0.3 oz					
Veight	35 gr. (1.2 oz) 35 gr. (1.2 oz) 35 gr. (1.2 oz	165 gr. (5.8 oz)	8 gr. (0.3 oz)	8 gr. (0.3 d
	35 gr. (1.2 oz) 35 gr. (1.2 oz		165 gr. (5.8 oz) nector IP67)	8 gr. (0.3 oz)	8 gr. (0.3 (
Veight	35 gr. (1.2 oz) 35 gr. (1.2 oz	IP68 (con		8 gr. (0.3 oz)	8 gr. (0.3



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