General Specifications

Model PH21 Wide body sensor for water and waste water

The PH21 is the newest wide body sensor in Yokogawa. This sensor is specially made for waterand waste water industry. This sensor has the following valuable features:

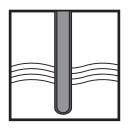
- The sensor body is made from recycled product.
- Preferred to work with SA11 SENCOM SMART Adapter model SA11.
- Our highly accurate instruments help you increase product efficiency, improve product quality and ensure process safety.
- Increase product efficiency due to the memory chip in the sensor.

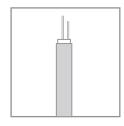
The PH21 sensor is targeted for water and waste water industry where simplicity will result in accuracy and reliable pH measurement. This means that in 80% of the water- and waste water industry, this sensor will be an excellent choice.

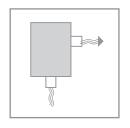
For more difficult applications than water, we refer you to other sensors in our pH portfolio.

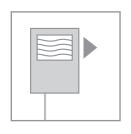


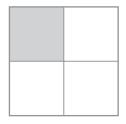
System Configuration











Sensors

Cables

Fittings

Transmitters

Accessories

GENERAL SPECIFICATIONS

Measuring elements : pH glass electrode

: Silver Chloride reference : Pt1000 temp sensor

Construction materials

Wetted parts

Sensor body : PPS- GF40
Measuring sensor : G-Glass
O-ring : Viton
Reference junction : PTFE

Functional specifications (at 25°C)

Dynamic specifications (at 25°C)

Response time pH step 7 to 4:15 sec for 90%

Response time temp

step 10°C : 120 sec for 90%

Stabilization time

(0.02 pH unit/10 s) : < 2 minutes

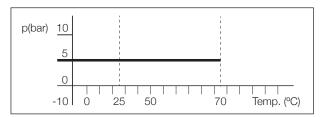
Operating range

pH : 0-14

Temperature : +0°C ... +60°C

Pressure (at 25°C) : 0 to 5 Bar (0 to 72 PSIG)
Pressure (at 70°C) : 0 to 5 Bar (0 to 72 PSIG)

Conductivity : $> 50 \mu S/cm$



Note: The pH operating range at room temperature is 0-14pH, but at high temperatures, the lifetime will be seriously shortened outside 3-11 pH range.

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Note: For detailed information about SENCOM SMART Adapter SA11 refer to current edition of GS12A06S01-01Z1x.

Selection options

PH21

Cable : WE10

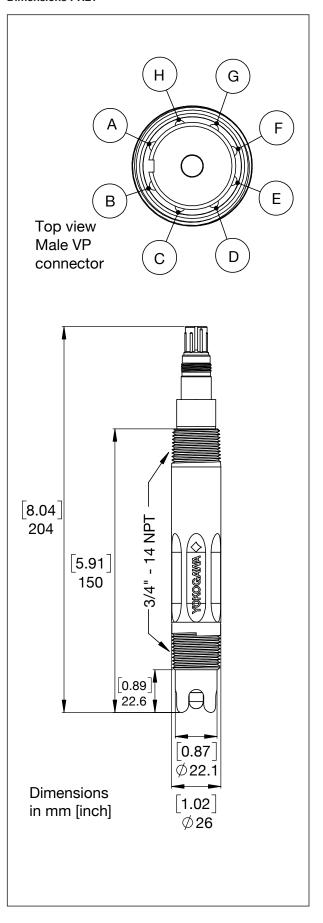
Smart adapter extension

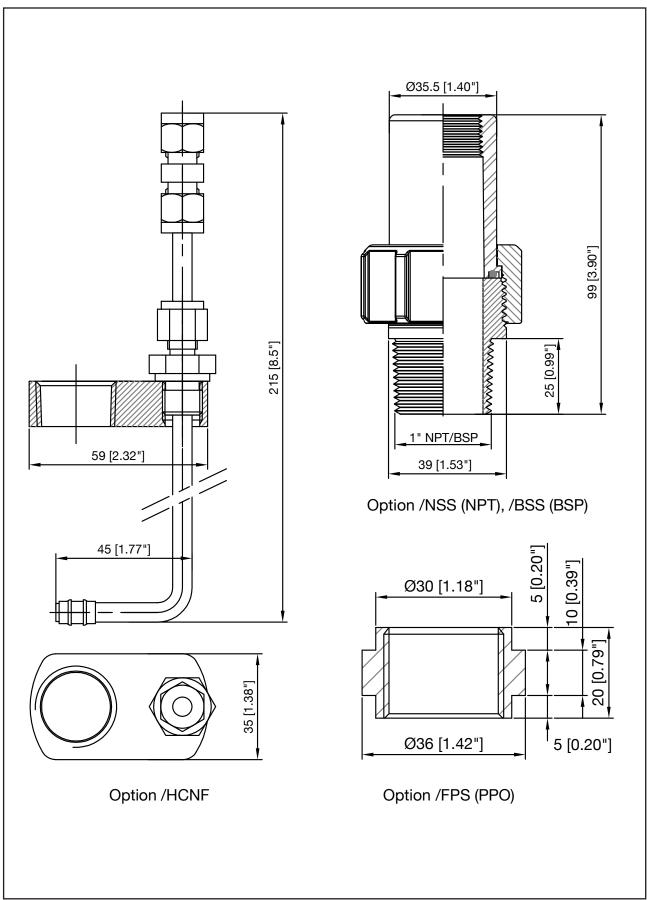
cable : WE10-003-V1

Flow fitting : FF40+ option /FPS or K1523DD Immersion : FD40+option /FPS or K1523DD Sub assembly : FS40+option /FPS or K1523DD

Option HCNF : K1547PJ

Dimensions PH21





Model and suffix code PH21

Model	Suffix code	Option code	Description
PH21			Wide Body sensor specially for water and wastewater applications
Connection	-VS		VarioPin with ID-chip for Sencom 4.0 connector (model SA11)
Туре	-RTD		PPS body / Tapered Thread / Dome shaped
Style	-NN		Always -NN
Options		/HCNF	Complete Hastelloy cleaning system
		/FPS	Adapter F*40 from PPO
		/NSS	1" NPT, SS316
		/BSS	1" BSP, SS316

Spare parts PH21

Part number	Part number
K1523DD	/FPS PH20-mounting in F*40
K1547PK	/NSS Adapter 1" NPT, SS 316 for PH21
K1547PL	/BSS Adapter 1" BSP, SS 316 for PH21
K1520BC	Buffer Solution (500 ml) pH 4.01
K1520BD	Buffer Solution (500 ml) pH 6.87

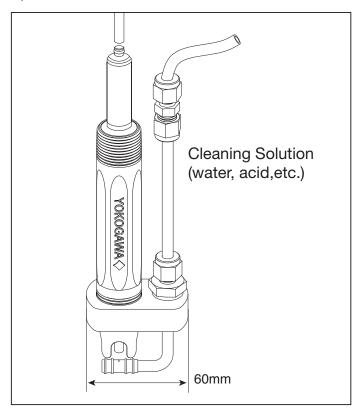
Cleaning system for PH21

Some applications require frequent cleaning of the electrode. For these applications Yokogawa designed a chemical cleaning system that can either be used in the Yokogawa fitting range (HCN2, HCN3 or HCN4) or as back-end mounting option for the PH21. The /HCNF option comes with a hastelloy cleaning nozzle, Stainless steel mounting and ferrules sets and a nylon tube of 10 meters.

Connection equipment

BA11	Actice junction connection box		
WE10	Multicore shielded cable with two low noise		
	coaxes and four insulated wires, halogeen		
	free.		
SA11	SENCOM SMART adapeter		

Option /HCNF



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Yokogawa has an extensive sales and distribution network.

Please refer to the European website (www.yokogawa.com/eu) to contact your nearest representative.



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