

REFEX™
sensors ltd

"The First to Last"



Invented in
Germany

Equivalent Yokogawa™ Sensors

Refex manufactures a range of probes designed to be direct replacements for Yokogawa™ brand electrodes in the field. Refex probes connect directly to Yokogawa™ analyzers to provide end users with enhanced measurement capabilities and extended life through utilization of the unique Refex reference cell interface.

By eliminating the porous junction used by standard pH and ORP probes in favor of an advanced electrochemically active sensor body REFEX provides unmatched measurement stability. Over a decade of operational use has consistently shown that REFEX sensors suffer minimal signal drift and provide exceptionally long life in a wide variety of applications worldwide.

Compared to a ritual weekly recalibration required by many pH sensor installations, REFEX-based sensors often only require a confirmation check every 90 days.

Changing out an existing brand sensor to a REFEX probe can provide a real savings in terms of replacement parts and maintenance overhead. REFEX sensors work with all modern dual high impedance pH/ORP transmitters, particularly in difficult and demanding applications where probe failure and replacement is commonplace. Equivalent sensors are often – but not always – direct replacements to the probe already in place.

Try a REFEX probe in your plant and see the REFEX difference firsthand.



For more information:
www.southforkinst.com
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T: 925-461-5059

Made in
Ireland

Yokogawa™ Separates

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YG-5610



YG-5710



YG-Pt100/1000



Specifications 5610 pH Glass Electrode:	
pH Range	0 - 12
Temp Range	0 - 100 °C
Pressure	10 bar
Impedance	<150 MΩ
Dimension	12 x 120mm
Connector	Yokogawa Y-Cap
Part No	YG-5610

Specifications 5710 REFEX Reference	
Temp Range	0 - 90 °C
Pressure	10 bar
Impedance	<50 kΩ
Dimension	12 x 120mm
Connector	Yokogawa Y-Cap
Part No	YG-5710

Specifications RTD Temperature Sensor	
Resistance	100/1000Ω at 0°C
Pressure	10 bar
Dimension	12 x 120mm
Connector	Yokogawa Y-Cap
Part No	YG-Pt100 YG-Pt1000

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Yokogawa™ FU-20 Equivalent

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Refex reference sensors are designed for arduous applications particularly where fouling or poisoning conditions exist.

The reference uses a highly stable non-porous polymeric interface instead of a traditional porous liquid junction as used by all conventional Yokogawa™ reference electrodes.

The active reference area is the whole of the outside surface of the electrode and this super large contact area means that the electrode is supremely resistant to coatings.

Poisoning effects are eliminated because the polymeric reference material is conductive to ions but not porous; the reference can operate electrically but electrolyte and process fluids are not exchanged.

Specifications	
FU20 Equivalent Sensor	
pH Range	0 - 12
Temp Range	0 – 100°C
Pressure	20 bar @ 50°C
Reference	<50 kΩ
Eo Zero	pH 7.0 ±15 mV
Impedance	<150 MΩ
Drift	2 mV / Week
Connector	Screw Terminal Ferrules
Cable Length	5m (other lengths available)
Part No	YG-3/4"-2001-Pt1000-LE-5M

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Yokogawa™ Equivalent Quick Reference Guide

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Yokogawa™ Model	REFEX Type No	Description
SM21-AG2	YG-5610-120	12mm pH Glass Electrode
SM21-AG4	YG-5610-120	
SM21-AG6	YG-5610-120	
SM21-AL4	YG-5610-120	
SM21-AL6	YG-5610-120	
SM29-PT9	YG-7610-120	12mm Redox Electrode
SR20-AC11	YG-5710-120	12mm Reference Electrode
SR20-AC22	YG-5710-120	
SC20-AC52	YG-5710-158	
SC20-AP24	YG-5710-120	
SC20-AP26	YG-5710-120	
SR20-AS52	YG-5710-158	
SC21-AAP26	YG-2001-120	12mm pH Combination Probe
SC21-AGP26	YG-2001-120	
SC21-AGC52	YG-2001-158	
SC21-ASP23	YG-2001-120	
FU20-	EC- 3/4"2001-PT100-10M-LE	3/4" pH Comb. Probe
SM60-T2	YG-PT100	12mm Temperature Probe
SM60-T1	YG-PT1000	

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Applications: In-Line and Immersion Systems

- Potable Water Applications
- Optimized Coagulation
- Low Ionic Raw Water and Ultra Pure Water (UPW)
- All Oil & Gas Sour Water
- All Petrochemical Process Water
- Chlor-Alkali - Chlorinated and Waste Brines
- Food and Beverage - CIP and SIP
- Industrial Waste Water
- Waste Water Treatment
- Heavy Metal Processes
- Pulp and Paper

Advantages of Reflex Non Porous Electrodes

- Protected Ag/AgCl reference half cell - REFEX barrier/interface prevents all liquid contact/exchange
- Resistant to fouling and poisoning
- Suitable for temperatures between 0...100°C
- Operates in pressures between full vacuum and 20 bar / 290 psi
- Instantaneous response to pH change
- Constant Eo zero - almost maintenance free
- Long electrode life - many times longer than all others
- Compatible with all modern pH instruments with dual high impedance inputs for pH and reference electrodes.
- No diffusion potential errors in low ionic waters
- No electrolyte refilling - sealed for life

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