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ПРОМЫШЛЕННЫЕ РН-ЭЛЕКТРОДЫ

Технические характеристики HBD551

HBD551 – Quick Change pH Sensor

Series HBD

Specifications

Overview

Honeywell's HBD Series of pH electrodes are for applications with high pressure and temperature as well high and low pH ranges. They are intended for the harshest of applications where traditional glass sensors and reference electrode technology do not stand up. The HBD Series combines the superior stability and ruggedness of the Durafet sensor with a unique reference technology that resists poisoning and fouling.

The **HBD551** is:

- a quick change pH sensor
- a pH sensor with an external nut-loc that improves safety and makes replacement easy
- ideal for sample lines and valve side-streams
- rugged, versatile and simple to use
- compatible with most industrial transmitters and analyzers

Honeywell's HBD Series of electrode mountings utilize a patented Reference Cell Technology.

The unique reference technology:

- prevents sensor poisoning
- prevent internal leaks
- prevent internal plugging
- allows extreme temperature and pressure tolerance
- allows for long life in low and high pH applications



HBD551 Electrode and Fitting

The HBD551 pH electrode is a quick change sensor.

Description

The HBD551 offers a reliable combination style pH electrode with measuring and reference electrode together with an temperature sensor in a 1-piece corrosion resistant Kynar body.

The **HBD551** pH electrodes are designed for quick-change in-line installations. The **HBD551** can also be used in submersion operations.



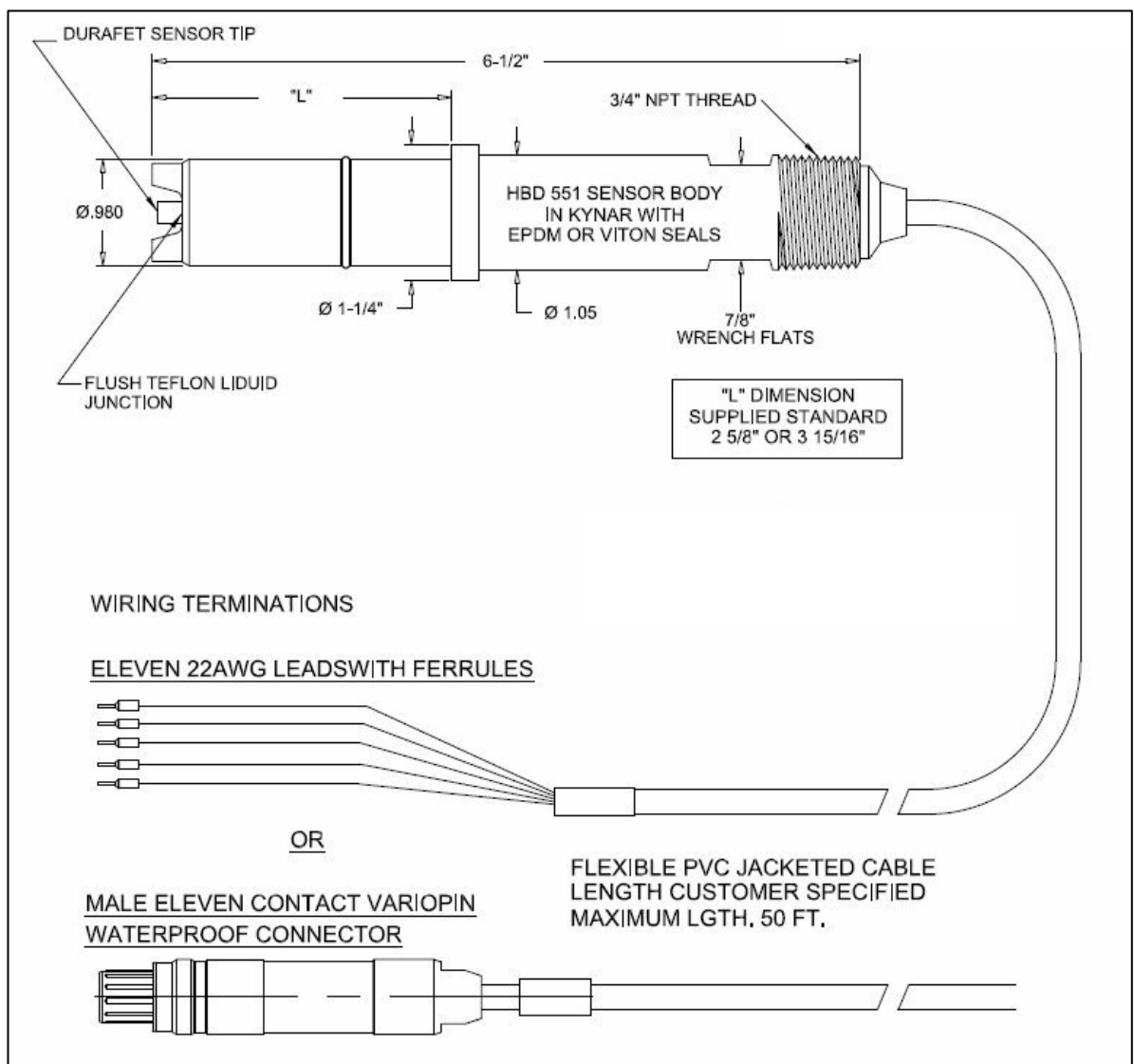
Unique Reference Technology

Like other rugged semi-solid state references, the reference is formed by a series of wood segments impregnated with KCL. The difference with the HBD Series technology is where others utilize an epoxy or impermeable barrier between each of the wood segments; the HBD Series uses a pair of formed discs.

When the two formed disc faces are positioned adjacent to one another they form a long pathway (filled with electrolyte) between each of the segments. The pathway provides a more complete transition of KCl ions between the wood segments and creates a difficult and longer distance for poisons traveling back into the reference from the process fluid.

The reference junction is made of Teflon and acts as the interface between the process fluid and the reference electrode. This is a porous surface, which passes ions between the reference and measurement fluid. The primary function is to allow very small amounts of KCl to leach from the reference and provide the millivolts necessary for pH measurement. The secondary function is to maintain a barrier between the measurement fluid and the reference so that the measurement fluid does not rapidly poison or foul the reference.

Dimension Drawings



Features HBD551 Electrode

- Non-Glass Ion Sensitive Field Effect Transistor (ISFET) pH sensor
- Rugged, virtually non-breakable
- Long lasting stability in the harshest of application environments
- ***Ideal for sample lines and valve side-streams***
- Integral automatic temperature compensator
- Chemically resistant Kynar body
- Less cleaning lowers maintenance costs
- Less frequent need for calibrations
- Great for high temperature and high pressure applications
- Can be used in both low and high pH conditions
- Utilizes an external nut-loc to improve safety
- Compatible with most industrial transmitters and analyzers
- Reduced replacement costs due to breakage and reference electrode failure
- Faster response for better process control and lower reagent usage

Specifications

Electrode	
Pressure and Temperature Rating	50 psig, 100°C 100 psig, 500°C
Operating Range	0-14 pH
Mounting	Quick-change in-line: 1" MNPT threaded adapter for installation into process, sample line or automatic cleaning system. Nut-loc retainer for quick removal and replacement.
Wetted Materials	Kynar, porous Teflon, Viton, Ryton, EPDM & Silicon
Cable Options	20 ft (6.1 m) and 50 ft (15.2 m) integral ferrule terminated leads or 10 inch integral Vario Pin connector
Temperature Sensor	8550 Ohm Thermistor, Pt1000 RTD
Weight	Approximately 0. 23 kg (0.5 lb)

Specifications are subject to change without notice.

Features

HBD546 Electrode

- Non-Glass Ion Sensitive Field Effect Transistor (ISFET) pH sensor
- Rugged, virtually non-breakable
- Long lasting stability in the harshest of application environments Integral automatic temperature compensator
- Chemically resistant Kynar body
- Great for high temperature and high pressure applications
- Can be used in both low and high pH conditions
- Rugged, quick-change, quick-clean
- Compatible with most industrial transmitters and analyzers

Specifications

Electrode	
Pressure and Temperature Rating	50 psig, 100°C 100 psig, 50°C
Operating Range	0-14 pH
Mounting	Threaded in-line: 3/4" MNPT threaded nose for installation into process, sample line or automatic cleaning system. Submerged: 3/4" MNPT threaded top for connection to 3/4" FNPT coupling and extension pipe.
Wetted Materials	Kynar, porous Teflon, Viton, Ryton, EPDM & Silicon
Cable Options	20 ft (6.1 m) and 50 ft (15.2 m) integral ferrule terminated leads or 10 inch integral VarioPin connector
Temperature Sensor	8550 Ohm Thermistor, Pt1000 RTD
Weight	Approximately 0. 23 kg (0.5 lb)

Specifications are subject to change without notice.

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