

Broadley-James® pH Sensors for Pulp & Paper Applications are:

Rugged

Broadley-James sensors have been used and tested for more than a decade in the pulp and paper industry under conditions involving strong caustics, high temperatures, and harsh industrial environments. The ST977, ST864, and ST951 are rugged, sealed sensor assemblies designed specifically for in-line applications in pulp and paper mills and related chloralkali plants.

Long-lasting

The solid state reference cell features the unique patented lonTrap™ design for extended service life in the most severe applications. The body is molded from chemical-resistant, conductive Ryton® or Kynar® and the reference junction is porous Teflon®. A built-in Pt 1000 temperature compensator is standard in all sensors, as is the integral solution ground connection in the ST977 and ST951.

Reliable

A good control system provides repeatability to the paper mill operator. It is their knowledge that produces quality paper. The reliable sensor, however, allows them to consistently do this over and over again, with confidence. The DynaProbe's® unique design offers distinct advantages which allow for a longer lifespan with less maintenance.

Compatible

Broadley-James' industry standard designs are compatible with most existing hardware in the pulp and paper industry. In addition, the pH sensors can be used with the majority of electronics and controllers on the market.



Extreme Pressure Assembly

This pH sensor and housing assembly is designed specifically for pulp stock applications involving extreme pressures up to 300 psig, elevated temperatures up to 140°C, and elevated pH levels. A Pt 1000 temperature compensator is built into the pH sensor.



SA864 Valve Retraction Sensor Housing Assembly

All wetted materials are 316 Stainless Steel

SA864-6L02-J01

Twist-Lock Assembly

The pH sensor assembly shown below is used throughout the paper mill where a hot-tap assembly is not needed. Ease of removal for calibration or replacement makes this pH sensor the preferred choice over threaded designs. A built-in Pt 1000 temperature compensator is standard as is the integral solution ground connection.

Typical applications include pH control and monitoring in bypass process lines or water treatment reservoirs.



Housing Part Number AM-9111 junction with the AM-9111 twist-lock adapter. This 316L stainless steel 1" MNPT adapter also includes a threaded safety retainer nut and fits into any standard 1" fitting.

Note:

All DynaProbes come standard with a builtin Pt 1000 temperature compensator. In addition, other temperature compensators are available on these sensors, including 3K and Pt 100.

Specifications

Part Number:

ST977-R33H-N07FF High Pressure

pH Range 0–14 pH Temperature Range 0–120 $^{\circ}$ C

Pressure Rating 100 psig @ 90°C

Reference System Ag/AgCl

Glass Membrane Type $\ \dots\ HT$ -3, Low Sodium

Ion error

Wetted Materials Ryton®, Teflon®, Glass

& Viton® O-rings

Part Number:

ST864-R33H-E07FF Extreme Pressure

pH Range 0–14 pH Temperature Range 0–140°C

Pressure Rating 300 psig @ 140°C

Reference System Ag/AgCl

Glass Membrane Type ... HT-3, Low Sodium

Ion error

Wetted Materials Kynar®, Teflon®, Glass

& 316 Stainless Steel

Part Number:

ST951-R33H-N07FF Twist-Lock

pH Range 0–14 pH Temperature Range 0–120°C

Pressure Rating 50 psig @ 120°C

Reference System Ag/AgCl

Glass Membrane Type ... HT-3, Low Sodium

Ion error

Wetted Materials Ryton®, Teflon®, Glass

& Viton® O-rings

Br<u>oadle</u>y° James

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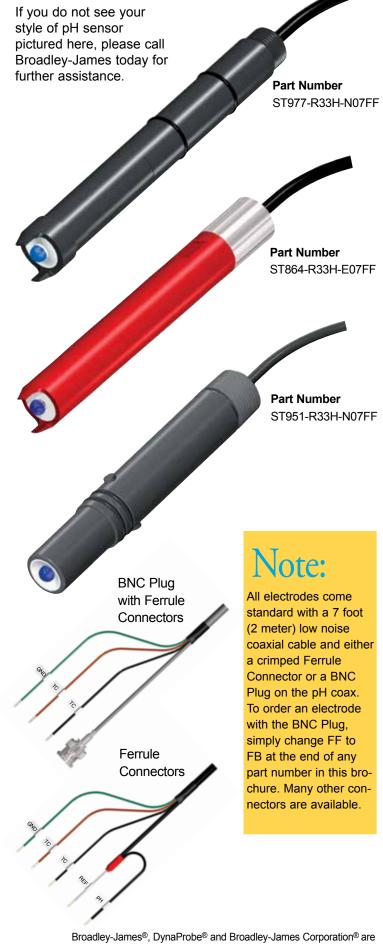
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