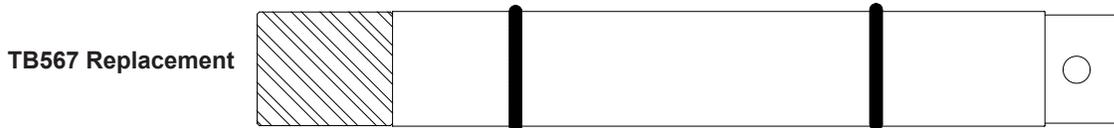
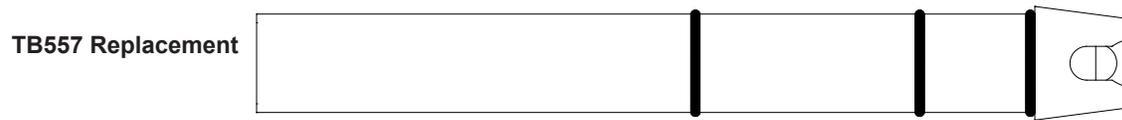


# BAT DIRECT REPLACEMENT SENSORS

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6103 GLENMONT • HOUSTON, TEXAS • 77081  
800/522-7920 • FAX 713/772-4671 • 713/772-6641  
www.VL-PC.com



- **Improved Life and Performance**  
Van London-pHoenix Co. electrode designs have been field proven in a variety of harsh applications. In most cases, direct replacements will outperform original equipment specifications.

- **Quick Order Turn-around**  
Housed electrodes consist of two parts: a housing and an electrode. Housings are machined to accept any number of stocked 12mm electrodes and require minimal factory assembly prior to shipment.

- **Easy, Low Cost Replacement**  
Direct replacements are dimensionally matched to existing equipment so that expensive retrofit changes are not necessary. For standardization, simply remove the original element and replace with a Van London-pHoenix Co. equivalent.

- **Custom Styles**  
Housings can be machined from numerous materials with several electrode guard designs and various insertion depths. Custom electrode designs can maximize sensor in harsh environments.

## **ELECTRODE SELECTION**

- Measuring Types:** GXV - Multi-purpose pH glass formulation (0-14.00 pH)  
Platinum Band - For ORP measurement (0-130°C)  
Antimony - For pH measurement in HF applications, 2-7 pH (0-80°C)
- Reference Types:** SPR<sup>™</sup> - Double junction, solid polymer reference (0-130°C)  
Tuff-Tip<sup>™</sup> - New design incorporating larger reference junction surface area & electrode guard.  
LCJ - Dramatically increases the reference junction surface area. Standard material is ceramic but porous Teflon and porous Kynar<sup>®</sup> are available.

## SPECIFICATIONS

Housing Materials: Kynar® and Viton®  
Pressure Ratings: TB551 - 100 psi @ 140°C; TB556 - 100 psi @ 80°C  
TB557 - 100 psi @ 80°C; TB564 - 300 psi @ 140°C  
TB567 - 250 psi @ 100°C

## ORDERING INFORMATION

- Call with TBI/ABB part numbers for quick cross-referencing to Van London-pHoenix Co. equivalents.
- To build your own part number, first determine the electrode style required and then replace **X's, Z's & Q's** with selections listed in the drop-down menus:

<b>A - 2 0 0 Z - XX BH</b>	<b>: TBI/Bailey TB551 Replacement</b>
<b>V - 4 0 0 Z - XX BH</b>	<b>: TBI/Bailey TB556 Replacement</b>
<b>A - 3 0 0 Z - XX BH</b>	<b>: TBI/Bailey TB557 Replacement</b>
<b>A - 1 0 0 Z - XX BH</b>	<b>: TBI/Bailey TB567 Replacement</b>

**Lead Length**  
Specify lead length in even feet

**Automatic Temperature Compensator (ATC)**

**1** 3,000 ohms @ 25°C  
**B** 100 ohms @ 0°C

**\*Note:** Platinum Band & Antimony Billet

## SPARE PARTS

<b>5205-118</b>	Twist-Lock Adapter (316SS) for 551
<b>5205-117</b>	Twist-Lock Adapter (epoxy) for 551
<b>3500720</b>	Titanium Sheath, 16" for 557
<b>1600720</b>	Rear Housing for 557
<b>4TB5101-0166</b>	High Pressure Sheath for 567
<b>4TB4953-0060</b>	Gland, hand tightened (316SS) for 557

*Additional electrode styles, materials and Wiring Adapters are available. Consult the factory for options.*

## ELECTRODE SOLUTIONS

9210038	4.00pH, 7.00pH and Deionized Water rinse (1 pint each)
9210037	4.00pH, 7.00pH and 10.00pH (1 pint each)
9210039	7.00pH, 10.00pH and Deionized Water rinse (1 pint each)
9210079	Anti-fouling solution to reduce electrode-coating problems
9210008-125	Electrode storage solution KCl/4.00 pH buffer (125 ml)



Please contact our Asia Pacific distributor:

**H2O Rx**

Phone: 0409 784 236 or 0421 795 353  
info@h2orx.com.au  
[www.h2orx.com.au](http://www.h2orx.com.au)

## ABB (TBI) REPLACEMENT SENSORS

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## LiveTap™ pH / ORP INDUSTRIAL INSERTION SENSOR ASSEMBLY



The LiveTap™ Insertion Assembly is ideal for use in areas where down time is critical by allowing removal of the electrode from a live line or tank without process interruption. Fitted with a 1.5" ball valve, the pH or ORP electrode can be removed for maintenance by sliding the 316L Stainless Steel sheath through the valve and closing it off. Your unit is now safe to remove.

What is unique about the Industrial Insertion Hardware is the fact that it allows you to use various types of electrodes without changing hardware. The TP571 series electrode is available for virtually any application that requires constant monitoring or control. They are manufactured to adapt to most controller / transmitters in existence today. It also offers improvements in electrode design by using a large surface Magna-Sens™ reference junction and a solid polymer reference gel.

### Features

- Replaceable Sensor
- Insert / Retract from a Live Line or Tank
- 316L Stainless Steel
- Viton® O-Rings
- Easy to Use

### Electrodes

- TP571 Replaceable Electrode, pH or ORP

### Specifications

- **Temperature Rating:** -5 to 120°C
- **Maximum Pressure:** 100 PSI at 80°C  
50 PSI at 120°C
- **Wetted Materials:** 316L SS, Kynar®,  
Glass & Kynar®

### Options

- Titanium
- Hastelloy C
- Kynar® (PVDF)
- Length
- O-Rings

### Ordering Information

- Part No. BVA571SS Insertion Assembly
- Part No. TP571 Electrode



Please contact our Asia Pacific distributor:

# H2O Rx

Phone: 0409 784 236 or 0421 795 353

info@h2orx.com.au

[www.h2orx.com.au](http://www.h2orx.com.au)

Kynar is a Trademark of Arkema, Inc. Corporation  
Viton is a Trademark of E.I. Dupont de Nemours & Co.  
LIVETAP is a Trademark of Van London - pHoenix Co.  
Magna-Sens is a Trademark of Van London - pHoenix Co.

[LiveTap.indd]

# ABB (TBI) REPLACEMENT ELECTRODE SENSORS

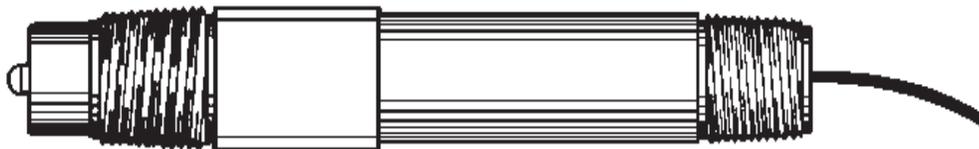
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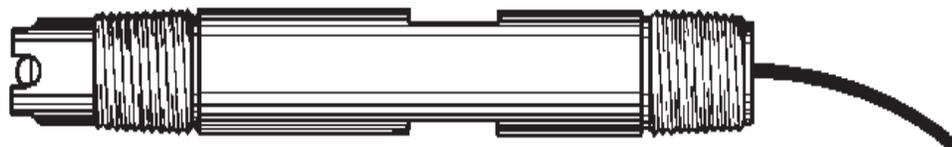
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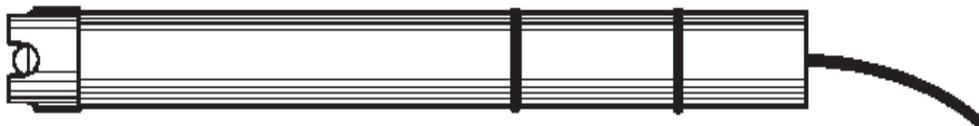
**Model TP511**  
Twist-Lock™  
TBI 551 Replacement



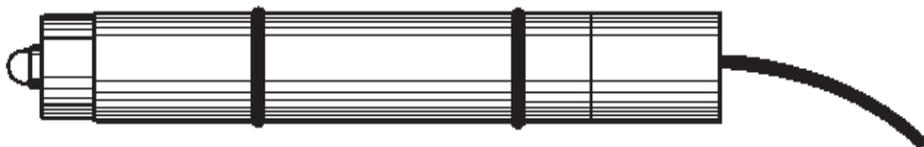
**Model TP531**  
1" NPT Threaded



**Model TP561**  
3/4" NPT Threaded  
TBI 556 Replacement



**Model TP571**  
Insertion  
TBI 557 Replacement



**Model TP671**  
Insertion  
TBI 567 Replacement

This series of Van London - pHoenix Company sensors are designed to retrofit the TBI/Bailey sensor assemblies. They are manufactured with a unique solid reference gel for extended life in the most severe applications. Constructed of chemically resistant PVDF, with a porous Magna-Flow and/or a wood junction. The sensors are available for pH, ORP and ion selective electrode applications. These electrodes are now available with solution ground. Two unique options are available. The first option is manufacturing the electrode housing made of a chemically resistant conductive Ryton/Graphite. Option 2 is using an exposed platinum band located near the reference and pH bulb. Either of these options will work quite well in conjunction with the Van London - pHoenix Company Differential Preamp for problem plagued applications. See ordering information.

## Specifications

Measuring Electrode Options	Range	Temperature Range	Maximum Pressure
1	0-12	0 - 80°C	50 PSIG
2	0-12	0 - 100°C	250 PSIG
3	0-14	0 - 120°C	250 PSIG
9	2-10	0 - 80°C	100 PSIG
7 & 8	± 5000 mV	0 - 120°C	250 PSIG

Maximum Pressure & Temperature	Model	Wetted Material	Reference
50 PSIG at 120°C	TP511	PVDF, Ceramic	Ag/AgCl
150 PSIG at 120°C	TP531	(wood) Glass,	Ag/AgCl
100 PSIG at 120°C	TP561	Viton® O-ring	Ag/AgCl
250 PSIG at 120°C	TP671		Ag/AgCl

Standard cable length is 7 feet.

[TBI-BAILEY.indd]