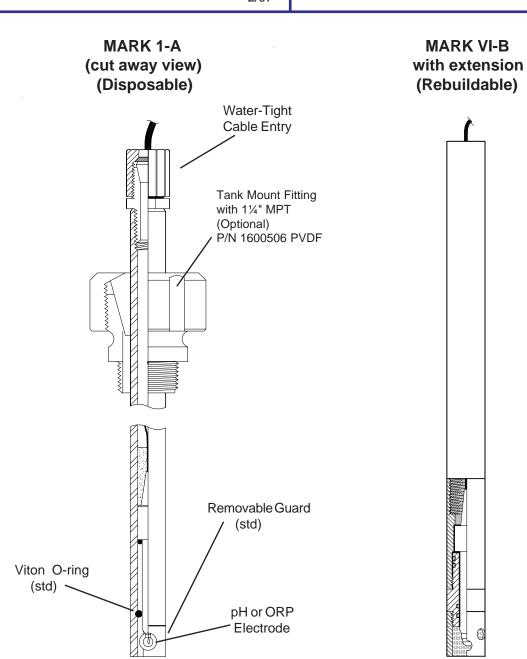
# SUBMERSIBLE SENSORS FOR pH, ORP, & CONDUCTIVITY APPLICATIONS



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



## **APPLICATION**

The Mark I-A and Mark VI-B sensors will continuously monitor pH, ORP, and Conductivity in tanks, vessels, or canals where liquid levels tend to vary. Typical applications include chlorine cells, latex coagulation tanks, and effluent sumps. It can be installed in atmospherically sealed vessels with use of a tank mount fitting (sold separately).

### **DESIGN ADVANTAGES**

The Mark 1-A sensor was designed to be ordered as a complete assembly which does not require additional labor or materials (extension pipes, water sealants, wiring adapters or connectors). This sensor is supplied with a removable guard. The removable guard will simplify cleaning and reduce down-time as well as maintenance expense. Van London-Phoenix Co. has the capability of supplying the numerous electrode designs for maximum electrode life. Furthermore, the Mark 1-A can be customized to mate up with any pH/ORP transmitter commercially available.

The Mark VI-B incorporates a removable drilled guard for optimum protection against electrode breakage. "Front Load" electrode replacement requires minimal disassembly. An all-in-one electrode (measuring, reference and ATC) reduces replacement costs and inventory requirements.

# **SPECIFICATIONS**

MARK 1-A MARK VI-B

**Sensor Length:** 48" is the standard 6"

Sensor Diameter: 3/4" 11/4"

**Electrode Material:** <u>pH</u> - glass and ceramic <u>pH</u> - glass and ceramic

<u>ORP</u> - Platinum, glass and ceramic <u>ORP</u> - Platinum, glass and ceramic

**Conductivity** - stainless steel and PEEK

O-ring Material: Viton® (standard) Viton® (standard)

**Pressure Rating:** Atmospheric Atmospheric

Temperature Rating: Kynar® - 100°C

CPVC - 60°C 316SS - 130°C Kynar® - 100°C Hastelloy - 130°C

#### **ELECTRODE STYLES**

Create an electrode that is best suited for your application requirements using the selections below:

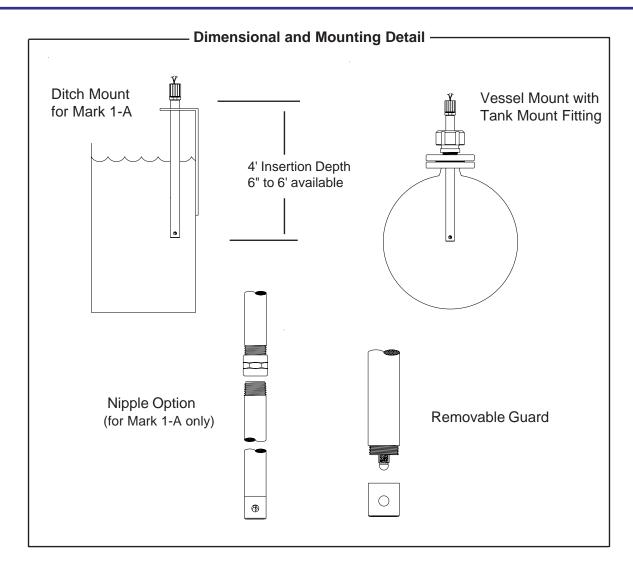
Measuring Types: Platinum Band - For ORP measurement

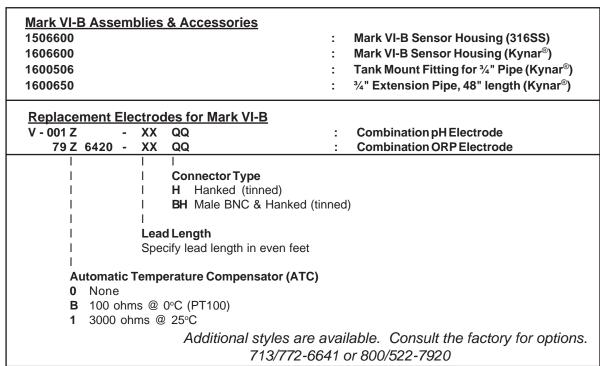
Conductivity - Cell constants 0.1 and 1.0

<u>GXV</u> - Multi-purpose pH glass formulation (0-14.00 pH)

**Reference Types:** <u>DJ</u> - Double ceramic reference junction

<u>SPRTM</u> - Double junction, **SOLID POLYMER REFERENCE** (0-120 °C)





## **ORDERING INFORMATION**

To build your own part number, first determine the sensor style required and then replace X's,
Z's & Q's with selections listed in the drop-down menus below. Call the factory if application

			plies (pH & ORP)		
V - 310		XX XX			
V - 300	) Z -	XX XX	: CPVC		
	I				
	1	l Con	nector Style		
	1	I H	Hanked (tinned)		
	1	l SL	Spade Lug		
	Temperature Compensate	or   BS	Male BNC & Spade Lug		
	1 3000 ohm	l BH	Male BNC & Hanked		
	<b>B</b> 100 ohm	l BT	Male BNC & Molex		
		Lead Le	ngth (in even feet)		
	Mark 1-A Sens	or Assem	blies (Conductivity)		
C1 X	X X 1	-	20 SL : Mark 1-A Conductivity Sensor		
1	1 1				
1	Cell Constant				
	l <b>2</b> 0.1				
1	I <b>4</b> 1.0				
	1				
	<b>Temperature Compensato</b>	r			
	B PT100 ohm				
1	L 10K ohm				
1	E PT1000 ohm				
1					
	terial of Construction				
	CPVC				
6	Kynar <sup>®</sup>		lable. Occasil the feeten for anti-		
	-		lable. Consult the factory for options.		
713/772-6641 or 800/522-7920					

# **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)

# TRANSMITTER REFERENCE GUIDE

<u>Tranmitter</u>	Temp. Comp.	Cable Connector
ABB/TBI515	1	BS
ABB/TBI TB82 & TB84	В	Н
Rosemount:		
1181 w/ preamp in transmitter	*	SL
1181 w/ remote preamp	*	BH
2081,3081,4081,5081,1055 & XMT	В	Н
Honeywell w/preamp	9	Н
Ingold/MettlerToledoB	Н	
Endress & Hauser, Foxboro, Yokogawa	В	Н
Great Lakes Inst.	B (conventional)	
Great Lakes Inst.	7 (differential)	

<sup>\*</sup> Preamp dependant - Consult Van London-Phoenix Co. sales staff.