

HOT TAP / RETRACTABLE SERIES FOR pH, ORP APPLICATIONS

7/15



MK7Z



MKX



MK7K



Live Tap™



• Safe Operation

These assemblies can be safely removed and replaced under pressure without process shutdown. Electrode o-ring arrangement seals the electrode from leaking, even in the event of breakage.

• Low Cost Electrode Replacement

The 3-in-1 electrode houses the measuring, reference, and automatic temperature compensator (ATC) to reduce inventory and maintenance downtime. A variety of styles are available to optimize electrode life.

APPLICATION

The Van London Co. insertion assemblies permit continuous pH, ORP, and conductivity monitoring in pressurized vessels or lines. Specifications are for mounting onto a weldolet, a pipe tee or flange.

• Quality "Built In"

All Van London Co. assemblies and electrodes meet strict, documented quality specifications, followed through each step of the manufacturing process.

• Custom Fabrication

Several other materials and sensor styles are available for customer-specified requirements.

ELECTRODE SELECTION GUIDE:

| | | |
|------------------|---|--------------------------------------|
| V - 200Z - XXQQ | : | pH electrode for MK7 Series and MKX |
| VR - 200Z | : | ORP electrode for MK7 Series and MKX |
| A - 300Z - XXQQ | : | |
| AR - 300Z - XXQQ | : | ORP electrode for LiveTap™ |

Connector Type

| | |
|----|----------------|
| H | Hanked |
| BT | BNC and Molex |
| BH | BNC and Hanked |
| S8 | pg 13.5 BSP |

Lead Length

| | |
|--------------------------------------|------------------------------------|
| 02 | 2 feet is standard for MK7 and MKX |
| 10 | 10 feet |
| 20 | 20 feet |
| * Custom cable lengths are available | |

Temperature Compensator

| | |
|---|------------|
| B | Pt100 ohm |
| E | Pt1000 ohm |
| I | 3k Balco |

Other sensor materials include Hastelloy C, Titanium, and Alloy 20. Flange assemblies are optional. Consult the factory for availability.

Combination pH Electrode

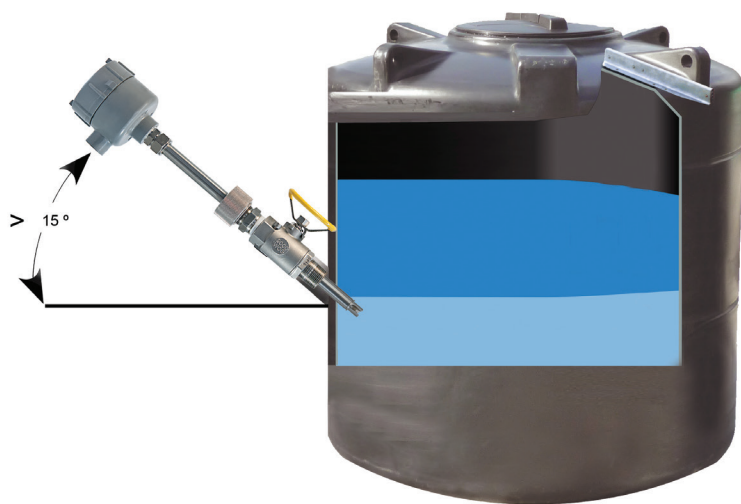
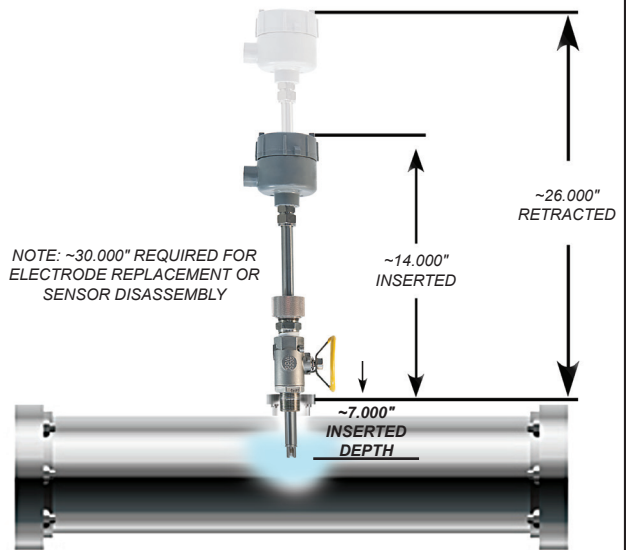
Ryton Housing (standard)

Dual o-rings

pH electrode



MK7 Dimensional and Mounting Detail



ORDERING INFORMATION

- Mark VII sensor assemblies and electrode cartridges are sold separately. To build your own electrode part number, first determine the electrode style required and then replace *'s with selections listed in the drop-down menu below.
- Call the factory if application assistance is required. Conversion information is readily available for quick replacement of existing installations.

| MK7x | - | x | xx | x | x | x | x | : | Mark VII Assembly |
|------|---|---|----|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | Special Options |
| | | | | | | | | | 0 No Options (standard) |
| | | | | | | | | | 1 High Temperature - Peek spacer and retainer nut |
| | | | | | | | | | Ferrule Material |
| | | | | | | | | | 1 Split Stainless Steel/Nylon (standard) |
| | | | | | | | | | 4 Kynar® (for Kynar® sensors only) |
| | | | | | | | | | O-Ring Material |
| | | | | | | | | | 1 Viton® (standard) |
| | | | | | | | | | 3 Kalrez® |
| | | | | | | | | | Ball Valve |
| | | | | | | | | | 3 1" 1-piece (standard) |
| | | | | | | | | | 4 1" 3-piece (Hastelloy C) |
| | | | | | | | | | 5 1¼" 3-piece (standard Kynar® only) |
| | | | | | | | | | Maximum Tube Insertion Depth |
| | | | | | | | | | 06 6 inches (standard for Kynar®) |
| | | | | | | | | | 07 7 inches (standard for 316SS) |
| | | | | | | | | | Material of Construction |
| | | | | | | | | | 1 316SS (standard) |
| | | | | | | | | | 2 Kynar® |
| | | | | | | | | | 4 Hastelloy C |
| | | | | | | | | | Assembly Style |
| | | | | | | | | | S Standard |
| | | | | | | | | | Z Quick Disconnect Modified Tip |

| MX | - | x | x | x | x | : | Mark X Pneumatic Retractable Assembly |
|----|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | Tube and Flushing Port Material |
| | | | | | | | 1 Stainless Steel (standard) |
| | | | | | | | |
| | | | | | | | Tube Insertion Depth |
| | | | | | | | 2 2" (standard) |
| | | | | | | | X Consult Factory for other available lengths |
| | | | | | | | |
| | | | | | | | O-Ring Material for wetted parts |
| | | | | | | | 2 Viton® (standard) |
| | | | | | | | 3 Kalrez® |
| | | | | | | | |
| | | | | | | | Ball Valve |
| | | | | | | | 0 No Ball Valve |
| | | | | | | | 1 1" 316SS 1-piece |

NOTE: Electrodes are sold separately and other options are available.

ELECTRODE SOLUTIONS

- 9210038-475 4.00pH, 7.00pH and Deionized Water rinse (475 ml), NIST-traceable
 9210037-475 4.00pH, 7.00pH and 10.00pH (475 ml), NIST-traceable
 9210039-475 7.00pH, 10.00pH and Deionized Water rinse (475 ml), NIST-traceable
 9210079-125 Anti-fouling solution to reduce electrode-coating problems
 9210008-475 Electrode storage solution KCl/4.00 pH buffer (125 ml)

WIRING ADAPTERS

- 2010730 - XX FBNC/Male Molex to Hanked
 2010681 - XX FBNC/Male Molex to MBNC/Hanked

XX - denotes lead length in even feet

FOR ADDITIONAL PRODUCT INFORMATION,

CALL 832-456-6641 OR 800/522-7920

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