# Wiring Schematics

## pH, ORP & Ion Selective Sensor Hookup Schematics

## Advanced Sensor Technologies, Inc. (ASTI)

| | | | |
|---|---|---|---|
| Q7F Quick Disconnect Snap Connector pH/ORP sensors with integral preamplifiers | 3TX with Preamp | 2TX with Preamp | 4TX with Preamp |
| | 3TX without Preamp | 2TX without Preamp | 4TX without Preamp |
| | 3TX with External Preamp | | |

## Uniloc / Rosemount Analytical Liquid Division / Emerson Process Management (EPM)

| Modern Transmitters (4-Wire Line Power) | Modern Transmitters (2-wire Loop Power) | Legacy Transmitters | Legacy Transmitters |
|---|---|---|---|
| 1056 / 1057 / 56 with Preamp | 1066 With Preamp | 1181 | 2081 (FM Approved) |
| 1056 / 1057 / 56 No Preamp | 1066 No Preamp | 54epH / 3081 / 4081 (with Preamp) | 2081 (Non-FM Approved) |
| 1056, 1057, 56 with External Preamp | 5081 with Preamp | 54 (No Preamp | 1003 |
| | 5081 No Preamp | XMT (with Preamp) | 1050 |

| | | | |
|---|---|---|---|
| | 6081 With Preamp | XMT (No Preamp) | 1054 |
| | 6081 No Preamp | 1055 (with Preamp) | 1054A |
| Q7M/Q7F Quick Disconnect Snap Connector pH/ORP sensors with integral preamplifiers | | 1055 (No Preamp) | 1054B |

## Leeds & Northrup (L&N) / Honeywell

| | | | |
|---|---|---|---|
| UDA2182 with Preamp | 7082 (Durafet) | 7075 | 7084 |
| 9072 (Honeywell) | 7082 (No Durafet) | 7079 | |

## Great Lakes Instruments (GLI) / HACH

| | | | |
|---|---|---|---|
| Q7M/Q7F Quick Disconnect Snap Connector pH/ORP sensors with 5-wire differential preamp; For all modern HACH & GLI Transmitters | 5-Wire Differential Preamp with Tinned Leads (P33, P53, P63 & 692P & Others) | 671<br>672<br>692 | 690<br>70<br>570 |

## Foxboro Analytical EChem (a division of Invensys) by Schneider Electric

| | | | |
|---|---|---|---|
| 870IT / 876 / 875 | 870IT SPECIAL (No Preamp, No Solution Ground) | 873 Dual Channel (DPX) | |
| 870IT (No Preamp) | 872 | 873 | |
| **Johnson Yokogawa Controls (JYC)** | **Endress & Hauser (E+H)** | **Electro-Chemical Devices (ECD)** | **Mettler Toledo** |
| 202 & 402 Analyzers | Most Models w/Standard Hookup | T-21 | 2400 (pH) |
| | | T-20 & T-27 | 2100e (pH) |

| | | | |
|---|---|---|---|
| | | T-28 | M300 |
| ABB TBI-Bailey | Georg Fischer Signet (+GF+) | Miscellaneous Manufacturers | |
| TBI Model 82 | 710 | IC Controls 655 | |
| AX4 Series | 8710 | Lakewood 820 | |
| | 9030 | Omega PHCN 28 | |
| | 2TX/3TX/4TX Preamp to Signet 8710 / 8750 | | |

## Generic Hook-Up Schematics for Sensors without Preamplfiers

| | | | |
|---|---|---|---|
| No Preamp (BNC Connector) | External Preamp (Standard) | No Preamp to External (Non-Differential) 54epH | Three Wire TC Hookup |
| No Preamp (Lead Wires) | External Preamp (Differential) | Battery Powered External Preamp | Generic Three-Wire TC Hook-Up (No BNC COnnector) |