ANALYZER DIMENSIONS (WALL MOUNT SHOWN)

Material: Polycarbonate
Ratings: Nema 4X (IP-66)
          V-0 Fire Retardant

JUNCTION BOX

ATI-0926

ATI-0655
AIR-BLAST ASSEMBLY

[Diagram of an air-blast assembly with dimensions and labels for components like AMBIENT AIR INLET, AIR DELIVERY, and POWER CONNECTION PORTS.]

SS-Q46P-R, RC (4/15)
**Q25 pH/ORP SENSOR DIMENSIONS**

**Convertible Sensor**
- Dimensions: 8.57 (225.3) mm
- 1" NPT

**Convertible Sensor w/Connector**
- Dimensions: 8.50 (215.9) mm
- 1" NPT

**Injection Sensor**
- Dimensions: 9.04 (229.6) mm

**Sanitary Sensor**
- Dimensions: 8.87 (225.3) mm
- A: 1.32 (33.5) mm
- B: 1.32 (33.5) mm

**Sensor Size**

<table>
<thead>
<tr>
<th>Sensor Size</th>
<th>A (mm)</th>
<th>B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2&quot;</td>
<td>2.75</td>
<td>1.98</td>
</tr>
<tr>
<td></td>
<td>(107)</td>
<td>(78.1)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>3.50</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>(88.9)</td>
<td>(63.5)</td>
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</table>

ATI-0724
**FLOW SENSOR DIMENSIONS**

```
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>pH Sensor w/o TC</td>
<td>(63-0005)</td>
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<tr>
<td>pH Sensor w/TC</td>
<td>(63-0013)</td>
</tr>
<tr>
<td>ORP Sensor</td>
<td>(63-0008)</td>
</tr>
</tbody>
</table>
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**SUBMERSIBLE SENSOR DIMENSIONS**

```
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Sensor</td>
<td>(63-0009), (07-0127)</td>
</tr>
<tr>
<td>ORP Sensor</td>
<td>(63-0023), (07-0129)</td>
</tr>
</tbody>
</table>
```

**30' AUTO-CLEAN SENSOR ASSEMBLY**

```
<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Sensor</td>
<td>(07-0127)</td>
</tr>
<tr>
<td>ORP Sensor</td>
<td>(07-0129)</td>
</tr>
</tbody>
</table>
```

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ATI-0313

ATI-0266
FLOW "T" INSTALLATION

1) Max. 150 psi for FLOW "T" operation.

SEALED pH FLOWCELL ASSY (00-1527)
Note: Mounting slots will accommodate up to #10-32 screws

SENSOR HANDRAIL MOUNTING

SENSOR CABLE TO MONITOR
2" HANDRAIL
MOUNTING PLATE ASSEMBLY (00-0628)

1" ALUMINUM CONDUIT, THREADED ONE END OR 1" SCH 80 PVC PIPE LENGTH AS REQUIRED (CUSTOMER SUPPLIED)
NOTE: USE OF pH SENSOR (02-656) REQUIRES A 1" X 3/4" REDUCING COUPLING TO MOUNT SENSOR TO CONDUIT (CUSTOMER SUPPLIED)

SUBMERSIBLE SENSOR MOUNTING OPTIONS

STANDARD SUBMERSIBLE (00-0628)

AUTOCLEAN SUBMERSIBLE (00-0624)
POWER, RELAY, AND OUTPUT CONNECTIONS

Optional Relay Board Wiring
(30V Max.)

Optional Analog Output Wiring

RELAY WIRING TB4,5,6 DETAIL

FACTORY DEFAULT (NORMAL MODE)

FAILSAFE MODE

ATI-0930, 0932, 0933

ATI-0931
SENSOR CONNECTIONS

CONNECT SHIELD TO T/B Labeled as "CABLE SHIELDS" located inside enclosure bottom of transmitter.

IF USING (03-0029) CABLE, REPLACE (YEL) COND. WITH THE (ORG) CONDUCTOR IN THE SENSOR CABLE.
SENSOR CONNECTIONS w/JUNCTION BOX

**Connection Colors**
- A = RED
- B = GREEN
- C = YELLOW or "ORANGE"
- D = "BLUE"
- E = WHITE
- F = BLACK
- G = N/U
- H = BOTH SHIELDS

**Diagram Details**
- **046 Analyzer**: Includes connections for various wires and a note on connecting shields.
- **Universal Junction Box**: Shows connections and labels for different wires.
- **Connection Wires**: Blue wire and jumper wire labeled between yellow & blue.
- **Custom 6-Conductor Q25 Sensor Interconnect Cable (31-0057)**
- **15' Q25 Sensor Cable (Standard)**
- **note**: If the (03-0029) sensor cable is used, use the (yellow) cond. in the interconnect cable to mate with the (orange) cond. in the sensor cable, when connecting the J-Box to the Analyzer.

**ATI-0726**
* 1-1/2" TEE Fitting not supplied with P/N (07-0221). Tee Fitting must be ordered Separately
NOTE: Sensor is not part of (07-0203) insertion assembly
NOTE: Sensor is not part of (07-0223) insertion assembly
LOCK-N-LOAD SENSOR (EXPLODED VIEW)

NOTE: RETAINING NUT, SENSOR HOLDER, LOCK-N-LOAD HOUSING, & END CAP ARE INCLUDED IN PART # (63-0052)
LOCK-N-LOAD SENSOR (OPERATIONAL DIAGRAMS)

OPERATIONAL POSITION

MAINTENANCE POSITION

7.50"

9.75"

ATI-0626
SENSOR CONNECTION (COMBINATION ELECTRODE)

FOR OTHER COMBINATION ELECTRODES, CONNECT AS FOLLOWS:

Terminal 1 - Glass Electrode  
3 - Reference Electrode  
7 - PT100 or PT1000 Temp. Element  
8 - PT100 or PT1000 Temp Element

NOTES: 1. Terminals 3 and 8 MUST be connected with jumper wire.
2. ORP sensors DO NOT HAVE T/C connections.
1) Always mount sensor cleaner within 25 ft. of sensor if possible. Maximum air line distance is 50 ft.

2) Sun shade over monitor is recommended in hot climates.

3) Monitor Handrail Mounting Kit # 00-0930 supplies all hardware listed for mounting monitor.

4) Wall mounting requires customer supplied screws or bolts.

5) Sensor Pipe Mounting Kit # 00-0624 supplies mounting plate with hardware and PVC pipe mounting adaptor.

6) Sensor Pipe Mounting Kit with Rag Shedder # 00-0629 supplies mounting plate with hardware and PVC rag shedder.
NOTE: DC ANALYZER PWR INPUTS INDICATE "+" AND "-" FOR INPUT CONNECTIONS. DO NOT ATTEMPT TO CONNECT AC PWR TO A DC ANALYZER AND VISE VERSA.