STANDARD SYSTEM DIAGRAM

SYSTEM DIAGRAM w/OPTIONAL pH SENSOR

ATI-0922

ATI-0923
SYSTEM DIAGRAM w/SEALED FLOWCELLS

LOW VOLT (I/O Wiring)
DIGITAL COMM. WIRING
RELAY WIRING
POWER IN

FLOWCELL ASSEMBLY
* RECOMMENDED IF INLET PRESSURE VARIES > 10 PSI

OPTIONAL pH SENSOR

SEAL pH FLOWCELL
(00-1527)

SENSOR CABLE MAX. 25 FT.

1/4" O.D. SAMPLE INLET LINE
(CUSTOMER SUPPLIED)

1/4" NPT x 1/4" OD SPEED FITTING SUPPLIED WITH REGULATOR ASSY FOR CUSTOMER CONN. USE

* FIXES FLOW REGULATOR ASSY
(03-0372)

1/4" O.D. DRAIN LINE

* ASSY COMES SUPPLIED WITH 10 FT. 1/4" OD TUBING
(01-0270)

ATI-0924
ANALYZER DIMENSIONS (WALL MOUNT SHOWN)

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

JUNCTION BOX

ATI-0926

ATI-0655
Enclosure Mounting Options

**PIPE MOUNTING**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Units</th>
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<tr>
<td>6.00</td>
<td>(152mm)</td>
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</table>

Bracket can be rotated 90° if needed.

**PANEL MOUNTING DIAGRAM**

- Panel output dimensions:
  - 4.37 min
  - 4.40 max

- Sealing gasket (43-0013) supplied with mounting kit must be installed prior to installation into panel.

- Panel not to exceed 1/4" thick.

- Panel mounting bracket (48-0168) supplied with mounting kit.

- (4) #10x1/2" FHMS (93-0105) supplied with mounting kit.

ATI-0927

ATI-0928
FLOW SENSOR DIMENSIONS & OVERFLOW CELL INSTALLATION

1) Sensor Material: Black PVC & Titanium
2) Connector is not submersible.
3) Outer diameter of sensor: 1.75" Dia. 44.5mm Dia.

ATI-0196

CI2 SEALED FLOWCELL ASSEMBLY (00-1522)

pH SEALED FLOWCELL ASSEMBLY (00-1527)

Material: Acrylic
Mounting Plate: PVC
**(07-0096) pH SENSOR DIMENSIONS**

1. Sensor Material: Black PVC & Titanium
2. Connector is not submersible.
3. Outer diameter of sensor: 1.75" Dia.
   44.5mm Dia.

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**(63-0101) pH SENSOR DIMENSIONS**

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**SPECIAL APPLICATION FLOWCELLS (CONSULT FACTORY)**

1. Sensor Material: Black PVC & Titanium
2. Connector is not submersible.
3. Outer diameter of sensor: 1.75" Dia.
   44.5mm Dia.

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Flow "T":

1. Max. 50 PSI for Flow "T" operation.
2. Use Teflon tape to seal In-Line Sensor.

Low Volume Flowcell:

1. Material: Clear Acrylic
**SUBMERSIBLE SENSOR DIMENSIONS**

![Submersible Sensor Details](image)

**SUBMERSIBLE SENSOR INSTALLATION**

![Submersible Sensor Installation Diagram](image)

ATI-004

ATI-0155
POWER, RELAY, AND OUTPUT CONNECTIONS

**RELAY WIRING TB4, 5, 6 DETAIL**

**FACTORY DEFAULT (NORMAL MODE)**

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<th>NC</th>
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<tr>
<td>B</td>
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<td>C</td>
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<tr>
<td>D</td>
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**FAILSAFE MODE**

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<th>COM</th>
<th>NC</th>
<th>NO</th>
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<tbody>
<tr>
<td>A</td>
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ATI-0931

Optional Relay Board Wiring (30V Max.)

ATI-0930, 0932, 0933

Optional Analog Output Wiring
ELECTRICAL CONNECTIONS

Remove Jumpers 3-5 & 6-9 if pH sensor is connected

Q22P SENSOR (07-0096)
- RED = 3
- BLACK = 5
- SHIELD = 4

ATI COMBINATION ELECTRODE (63-0101)
- CENTER COND. = 3
- SHIELD (BRAID) = 5
- GREEN = 7

FLOW STYLE PROBE

CONNECT SHIELD TO T/B LABELED "CABLE SHIELDS" LOCATED ON P/S PCB INSIDE THE ENCLOSURE

SENSOR SUBMERSIBLE STYLE
SENSOR CONNECTIONS - REMOTE JUNCTION BOX

Remove Jumpers 3-5 & 6-9 if pH sensor is connected.

JUNCTION BOX (07-0100)

- Shield connected to T/B
- Located on P/S PCB in bottom of enclosure

_CONNECTION COLORS_
- C = WHITE
- D = BROWN or ORANGE
- E = SHIELD
- F = RED
- G = BLACK
- H = GREEN

FOLLOW CONTINUITY FROM J-BOX TO MONITOR FOR COLORS

SENSOR INTERCONNECT CABLE, 100 FT. MAXIMUM (31-0038)

FLOW STYLE PROBE

SENSOR SUBMERSIBLE STYLE
(63-0101) Bayonet Style pH Probe CANNOT be used in a remote application