SYSTEM DIAGRAM w/ SEALED FLOWCELLS

FLOWCELL ASSEMBLY

* RECOMMENDED IF INLET PRESSURE VARIES > 10 PSI

SENSOR CABLE MAX. 25 FT.

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

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

* FIXED FLOW REGULATOR ASSY (03-0372)

* ASSY COMES SUPPLIED WITH 10 FT 1/4" OD TUBING (4H-0276)

1/4" O.D. DRAIN LINE

ATI-0924
ANALYZER DIMENSIONS (WALL MOUNT SHOWN)

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

JUNCTION BOX

ATI-0926

ATI-0655
FLOW SENSOR DIMENSIONS & OVERFLOW CELL INSTALLATION

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

ATI-0196

CI2 SEALED FLOWCELL ASSEMBLY
(00-1522)

Material: Acrylic
Mounting Plate: PVC

pH SEALED FLOWCELL ASSEMBLY
(00-1527)
**Special Application Flowcells (Consult Factory)**

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

**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
**Model Q46H-65 Chlorine Dioxide Monitor**

**Sensor Dimensions and Installation**

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### SUBMERSIBLE SENSOR DIMENSIONS

![Diagram of Submersible Sensor Dimensions]

**ATI-004**

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### SUBMERSIBLE SENSOR INSTALLATION

![Diagram of Submersible Sensor Installation]

**ATI-0155**
POWER, RELAY, AND OUTPUT CONNECTIONS

Optional Relay Board Wiring (30V Max.)

Optional Analog Output Wiring

MODBUS Communication

RELAY WIRING TB4,5,6 DETAIL

FACTORY DEFAULT (NORMAL MODE)

FAILSAFE MODE

ATI-0930,
0932. 0933. 0989
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 OF ENCLOSURE

SENSOR SUBMERSIBLE STYLE (NOT AVAILABLE FOR Q46H-62)
SENSOR CONNECTIONS - REMOTE JUNCTION BOX

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

JUNCTION BOX

(07-0100)

SENSOR CONNECTION COLORS

C = WHITE
O = BROWN or ORANGE
F = SHIELD
E = RED
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

**SENSOR CONNECTIONS - \( \text{Cl}_2 / \text{pH} \) WITH JUNCTION BOX**

- **Sensor Interconnect Cable**: 100 ft. max (31-0038)
- **Junction Box**: (37-0100)
- **Analytics**
  - **pH (Act) - Brown**
  - **pH (Ref) - Blue**
- **Connect Shield to P/5 Board**
- **Shielded Cable Shields Hole in Enclosure**
- **DUAL PROBE CORD CHART**
  - **A - Blue (pH Ref)**
  - **B - Red (pH Act)**
  - **C - White**
  - **D - Orange**
  - **E - Shield**
  - **F - Red**
  - **G - Black**
  - **H - Green**

**Note:** When connecting junction box to transmitter using the interconnect cable specified above, connect the blue wire to **A** and the brown wire to **B** in the junction box. On the transmitter end, connect the blue wire to **pH (Ref)** and the brown wire to **pH (Act)**.