INSTALLATION OPTIONS

**D46 ANALYZER**

- Low Volt (I/O Wiring)
- Relay Wiring
- Power In
- Digital Comm Wiring

**INSTALLATION OPTIONS**

- Submersible Mount
- 1.5" Flow Tee (Consult Factory Before Use)
- Constant Head Flow Cell
- Sealed Flow Cell
SECONDARY pH INPUT OPTIONS

- Q46 ANALYZER
- LOW VOLT (I/O WIRING)
- RELAY WIRING
- DIGITAL COMM WIRING
- POWER IN

**Q42 pH SENSOR**
- IN CONSTANT HEAD FLOWCELL

**STANDARD COMBINATION**
- pH SENSOR IN CONSTANT HEAD FLOWCELL

**pH SENSOR IN SEALED FLOWCELL (USE WITH CI2 SENSOR/SEALED FLOWCELL)**

**SUBMERSIBLE Q42 pH SENSOR**
- (USE WITH SUBMERSIBLE CI2 SENSOR)
**ANALYZER DIMENSIONS (WALL MOUNT SHOWN)**

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

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**JUNCTION BOX**

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**Enclosure Dimensions**

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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)

PH SEALED FLOWCELL ASSEMBLY
(00-1527)

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

(63-0101) pH SENSOR DIMENSIONS

SPECIAL APPLICATION FLOWCELL (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
**SUBMERSIBLE SENSOR DIMENSIONS**

<table>
<thead>
<tr>
<th>Temperature Sensor</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.7&quot;</td>
</tr>
<tr>
<td></td>
<td>145mm</td>
</tr>
<tr>
<td></td>
<td>4.9&quot;</td>
</tr>
<tr>
<td></td>
<td>124mm</td>
</tr>
<tr>
<td></td>
<td>2.2&quot;</td>
</tr>
<tr>
<td></td>
<td>56mm</td>
</tr>
</tbody>
</table>

**SUBMERSIBLE SENSOR INSTALLATION**

- Sensor cable to monitor
- 2" Handrail
- Swivel mounting bracket w/ hardware (00-0628)
- 1" T x T PVC coupling (supplied with swivel kit)
- 1" Aluminum conduit, threaded one end or 1" schedule 80 PVC pipe, length as required (customer supplied)
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)

Factory Default (Normal Mode)

FAILSAFE MODE

FAILSAFE MODE

ATI-0930, 0932, 0933, 0989

ATI-0931
ELECTRICAL CONNECTIONS

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

\[\text{CONNECT SHIELD TO T/B LABELED "CABLE SHIELDS" LOCATED ON P/S PCB INSIDE OF ENCLOSURE}\]
SENSOR CONNECTIONS - REMOTE JUNCTION BOX

Q46 ANALYZER

JUNCTION BOX
(07-0100)

SHIELD
CONNECTED
TO T/B
LOCATED ON
P/S PIG
IN BOTTOM
OF ENCLOSURE

FOLLOW CONTINUITY
FROM J-BOX TO MONITOR
FOR COLORS

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

FLOW STYLE
PROBE
(00-1671)

SENSOR SUBMERSIBLE
STYLE
(00-1672)

CONNECTION COLORS
B = BLUE
C = WHITE
D = BROWN or ORANGE
E = SHIELD
F = RED
G = BLACK
H = GREEN

ATI-1089