STANDARD SYSTEM DIAGRAM
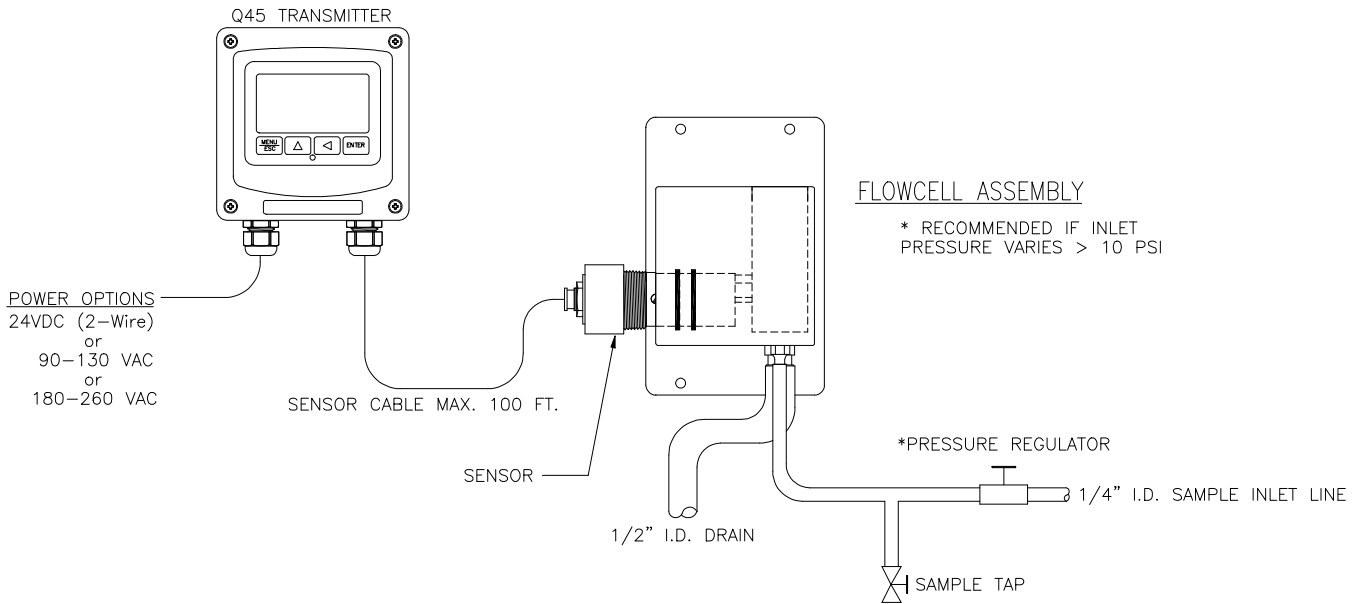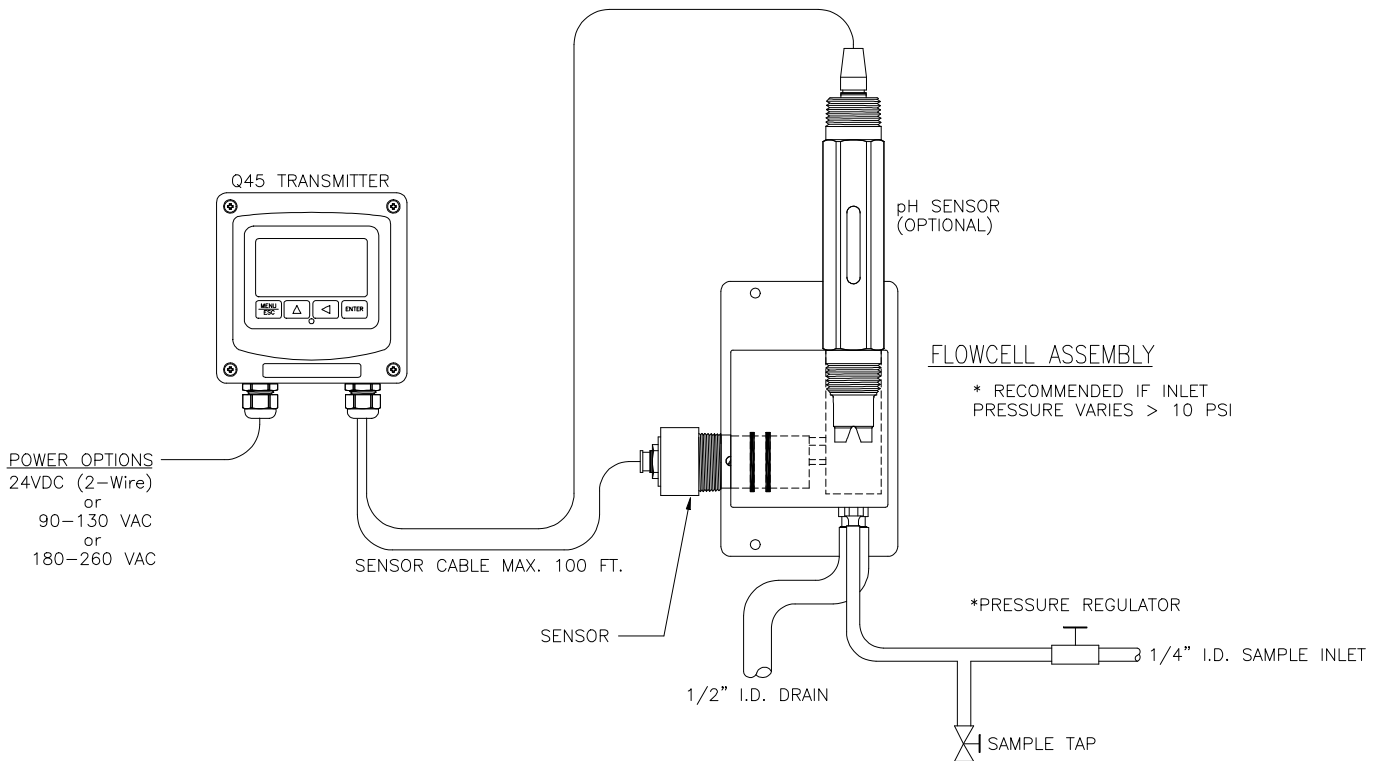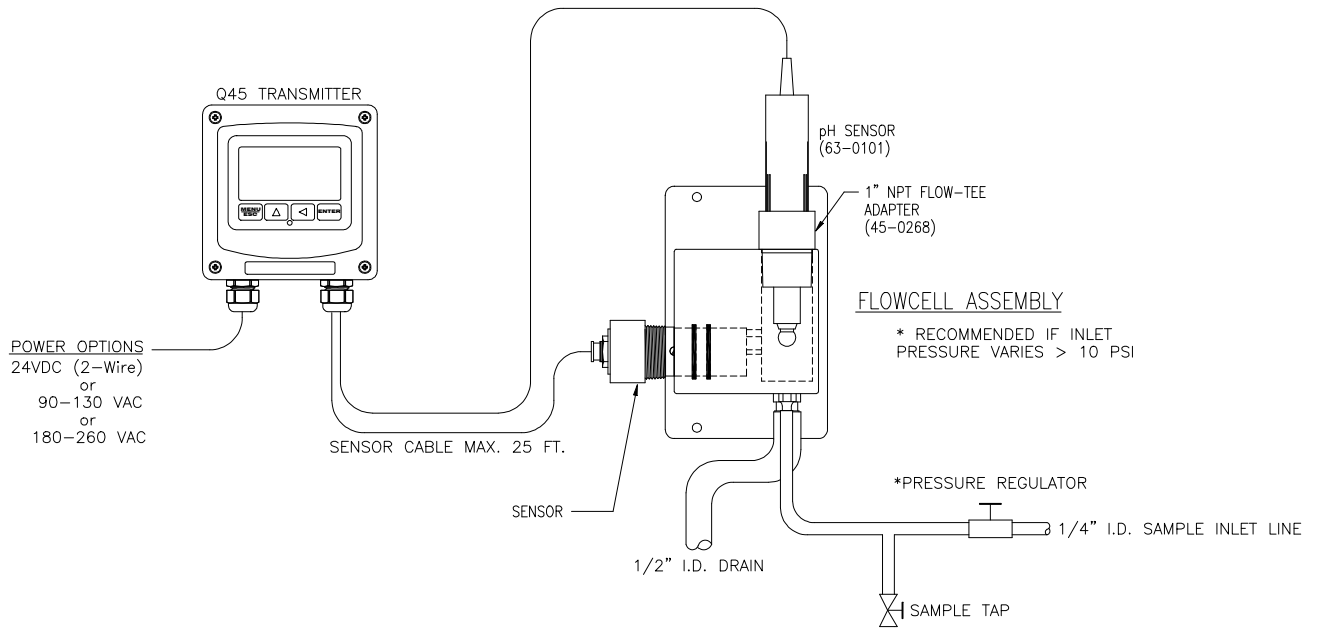

ATI-0730

SYSTEM DIAGRAM w/OPTIONAL pH SENSOR
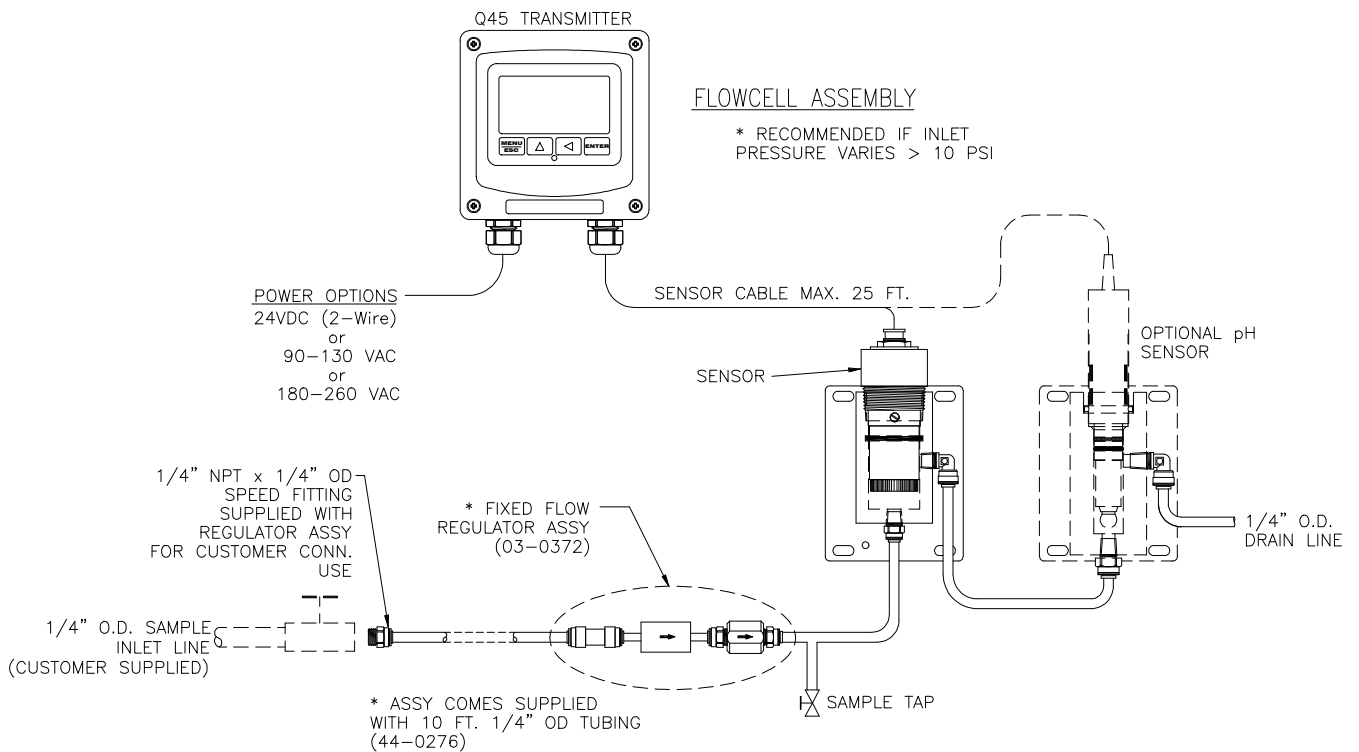

ATI-0648

SYSTEM DIAGRAM w/OPTIONAL pH (BAYONET STYLE) PROBE
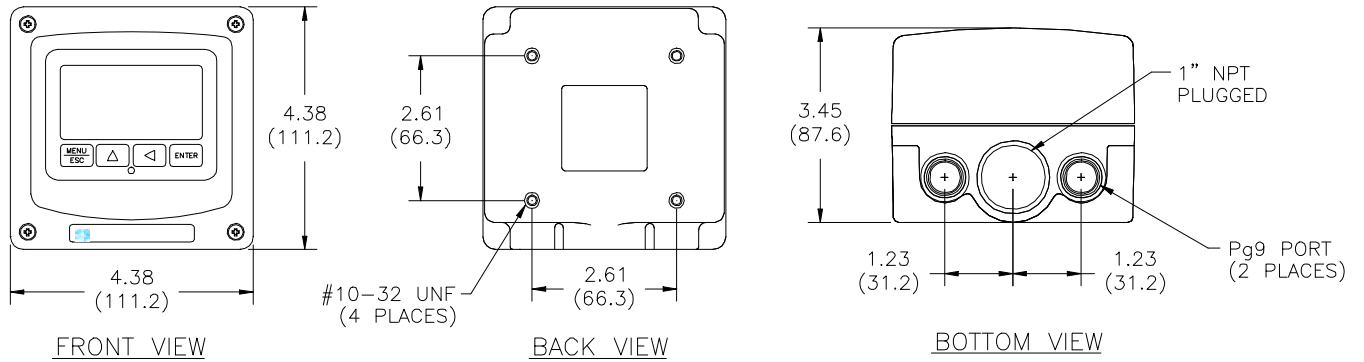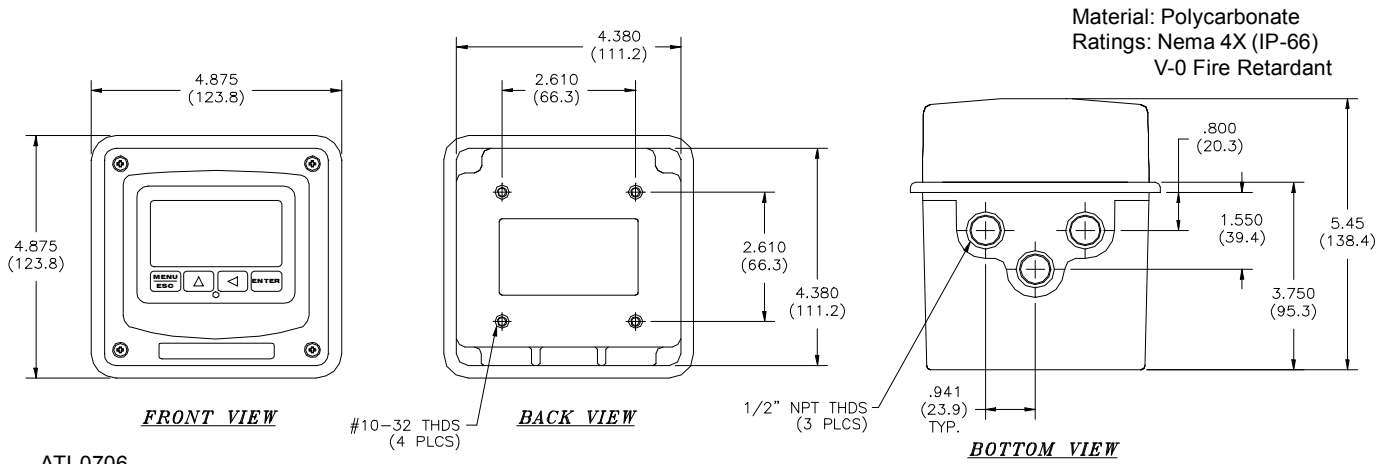

ATI-0863

SYSTEM DIAGRAM w/SEALED FLOWCELLS

2-WIRE VERSION (or BATTERY POWERED)

FRONT VIEW

4.38 (111.2)
4.38 (111.2)

BACK VIEW

2.61 (66.3)
2.61 (66.3)
#10-32 UNF (4 PLACES)

BOTTOM VIEW

3.45 (87.6)
1" NPT PLUGGED
Pg9 PORT (2 PLACES)
1.23 (31.2)
1.23 (31.2)

ATI-0655

NOTE: JUNCTION BOXES HAVE SAME DIMENSIONS AS 2-WIRE TRANSMITTER

AC POWERED VERSION

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

FRONT VIEW

4.875 (123.8)
4.875 (123.8)

BACK VIEW

4.380 (111.2)
2.610 (66.3)
2.610 (66.3)
4.380 (111.2)
#10-32 THDS (4 PLCS)

BOTTOM VIEW

.800 (20.3)
1.550 (39.4)
5.45 (138.4)
3.750 (95.3)
1/2" NPT THDS (3 PLCS)
.941 (23.9) TYP.

ATI-0706

WALL MOUNTING

6.00 (152.4)
4.875 (123.8)
4.875 (123.8)
2.937 (74.6) MAX.
2.375 (60.3) MIN
3.60 (91.44)
MOUNTING SLOT FOR UP TO 1/4" DIA. SCREW, TYP 4 PLCS.
SHOWN WITH 1/2" NPT CORP GRIPS INSTALLED
5.45 (138.4) C-C

WALL
3.8 (96)
5.75 (146)

ATI-0709

PIPE MOUNTING

6.00
(152.4)

4.875
(123.8)

NOTE: MOUNTING PLATE HOLE SPACING CAN
SUPPORT UP TO 2" ∅ PIPE. MAX.

1.5"∅ PIPE

MENU
ESC   △   ◁   ENTER

SHOWN WITH 1/2" NPT
CORP GRIPS INSTALLED

5.45
(138.4)
C−C

3.8
(96)

5.75
(146)

NOTE: PLATE MAY BE TURNED 90° FOR VERTICAL PIPE MOUNTING

ATI-0710

PANEL MOUNTING - AC UNITS

SEALING GASKET
(43−0012)
SUPPLIED WITH MOUTING KIT
MUST BE INSTALLED
PRIOR TO INSTALLATION
INTO PANEL

PANEL

PANEL MOUNTING BRACKET
(48−0158)
SUPPLIED WITH MOUNTING KIT

(4) #10x1/2" PHMS
(92−0107)
SUPPLIED WITH
MOUNTING KIT

4.40 MIN.
4.50 MAX.

4.40 MIN.
4.50 MAX.

PANEL CUT−OUT
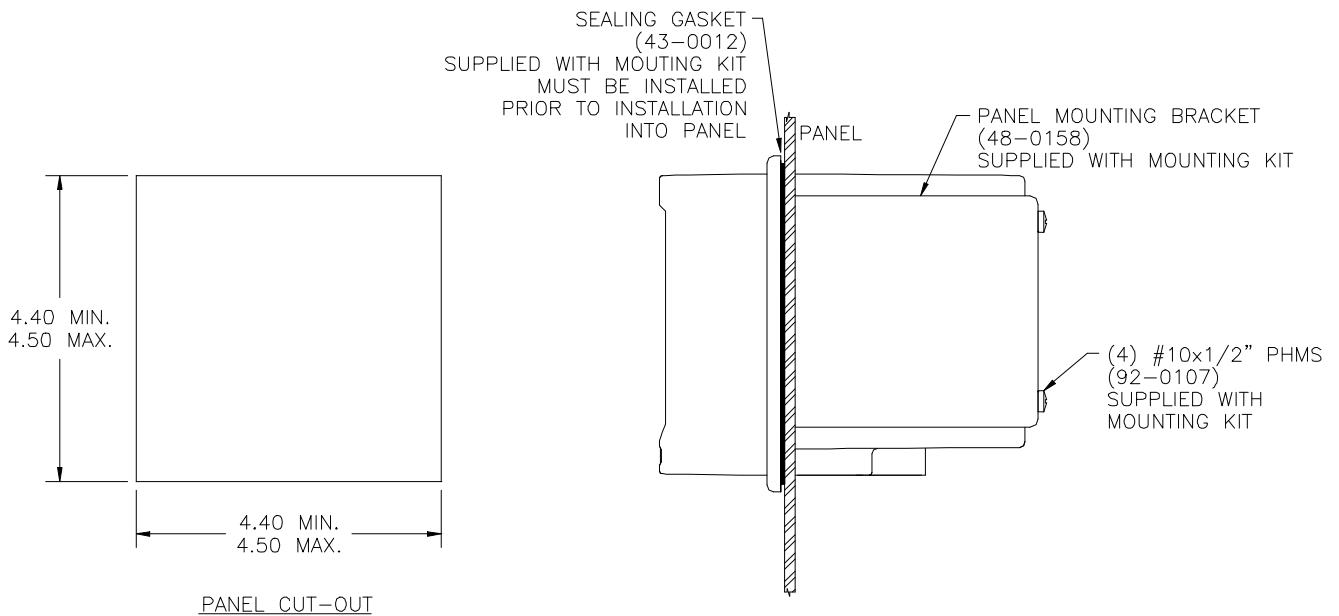
ATI-0711

FLOW SENSOR DIMENSIONS & OVERFLOW CELL INSTALLATION

(4) ¼" DIA. THRU HOLES
CUSTOMER MOUNTING

OVERFLOW CELL ASSEMBLY
P/N: 00-0043

Material Acrylic
Mounting Plate: PVC

4.20"
107mm

CONNECTOR

Cl₂ FLOW SENSOR
P/N: 00-0066

6.40"
163mm

7.00"
178mm

1) Sensor Material:
   Noryl EN265 & Stainless Steel

2) Connector is not submersible.

3) Outer diameter of sensor:
   1.75" Dia.
   44.5mm Dia.

CLEAR ACRYLIC

1/16" THK. S.S.

2.75"
70mm

½" BARB FITTING (DRAIN)

¼" BARB FITTING (INLET)

4.50"
114mm

ATI-0196

SEALED FLOWCELL ASSEMBLY DIMENSIONS

3.61
92mm

2.66
68mm

MOUNTING SLOT FOR
#10-32 SCREW
TYP. 4 PLCS.

4.03
102mm

4.576
116mm

1/4" OD
OUTLET

1/4" OD
INLET

FLOW STYLE SENSOR
SEALED FLOWCELL ASSEMBLY

3.61
92mm

2.66
68mm

MOUNTING SLOT FOR
#10-32 SCREW
TYP. 4 PLCS.

5.393
137mm

4.03
102mm

4.576
116mm

1/4" OD
OUTLET

1/4" OD
INLET

OPTIONAL pH SENSOR
SEALED FLOWCELL ASSEMBLY
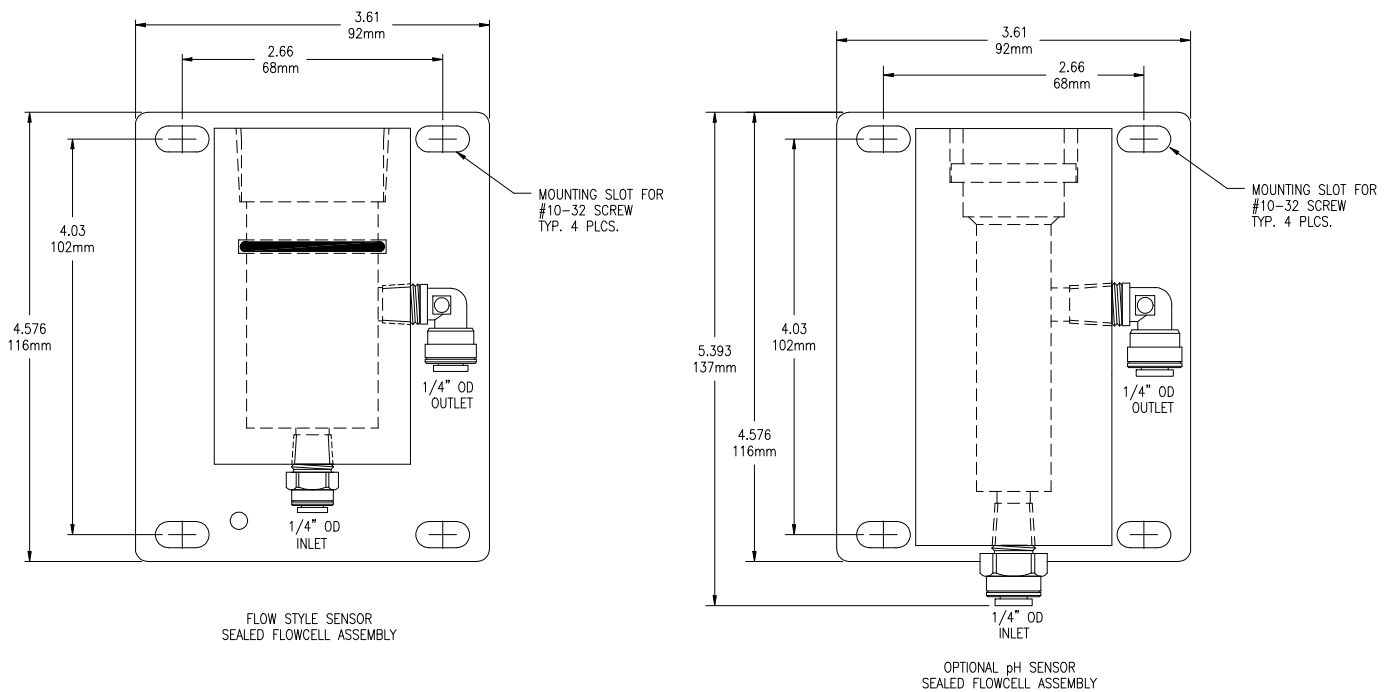
SUBMERSIBLE SENSOR DIMENSIONS

25' CABLE STANDARD

Cl₂ SUBMERSIBLE SENSOR
P/N: 00-0067

$\underline{2.2"}$
56mm

1" NPT

TEMPERATURE
SENSOR

$\underline{5.7"}$
145mm

$\underline{4.9"}$
124mm
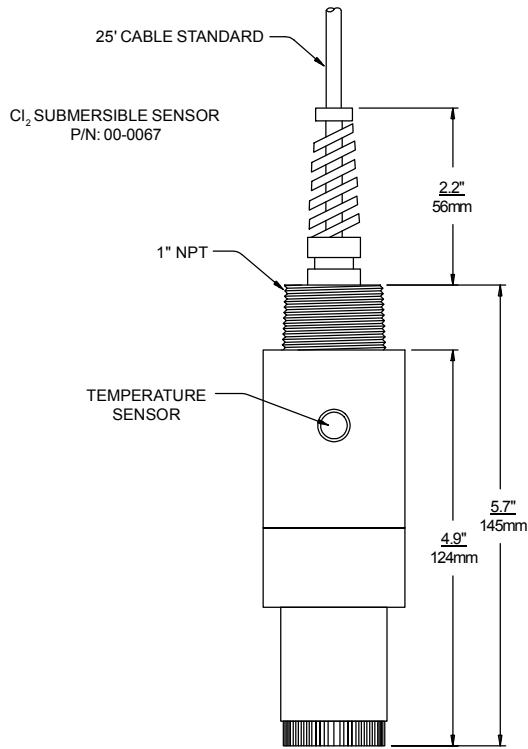
ATI-004

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
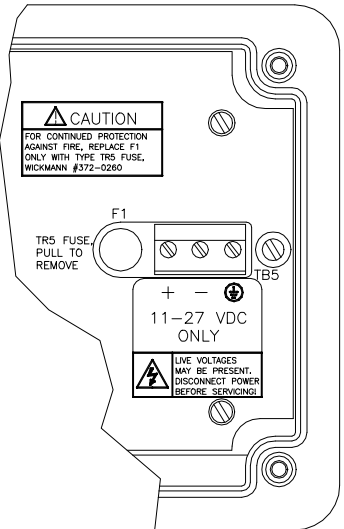80 PVC PIPE. LENGTH AS REQUIRED (CUSTOMER SUPPLIED)
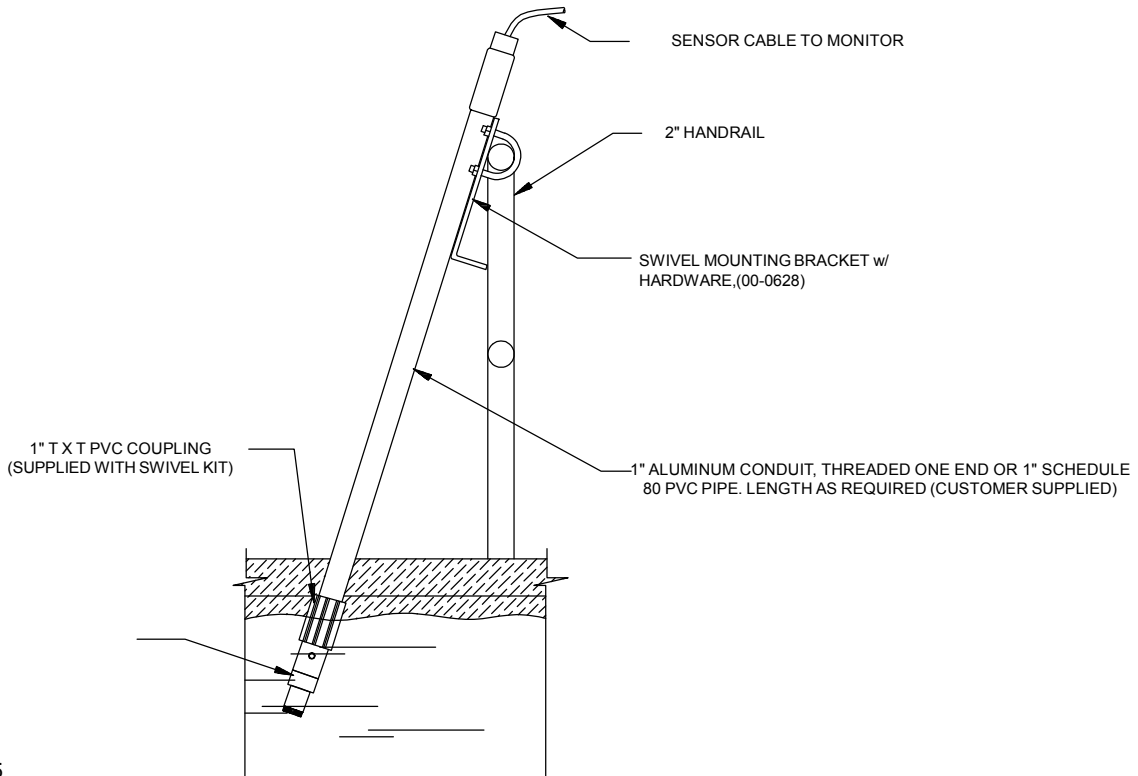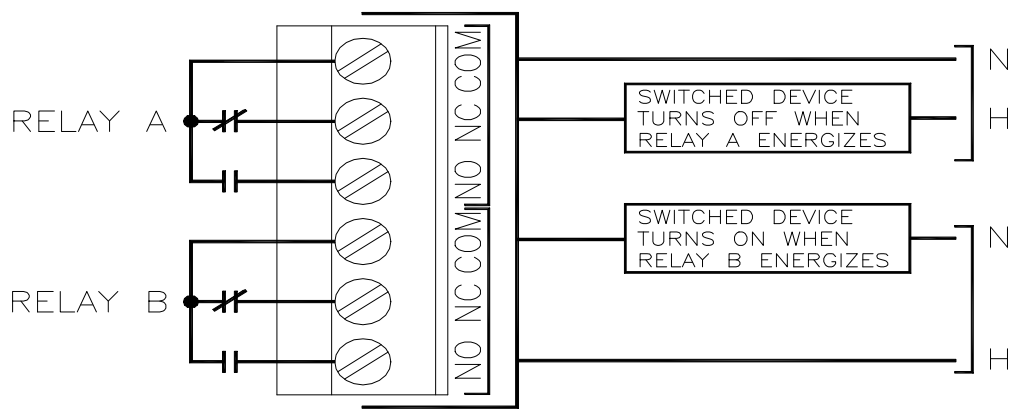
ATI-0155

POWER, RELAY, AND OUTPUT CONNECTIONS
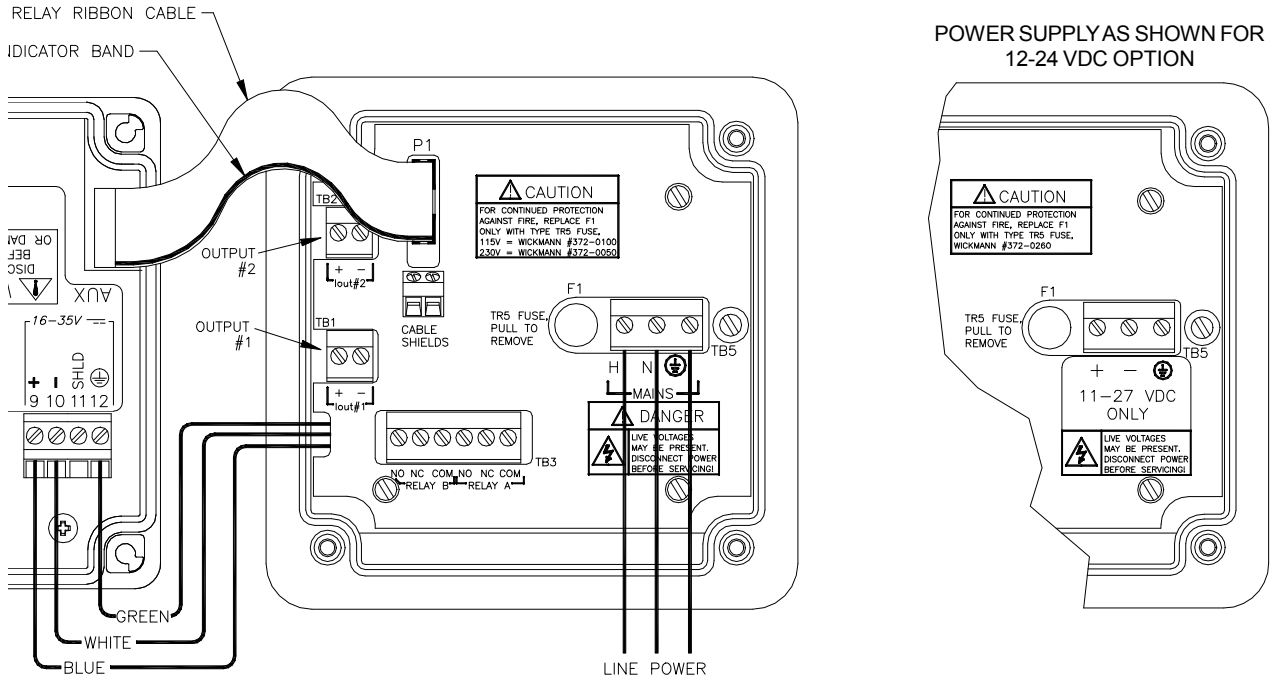
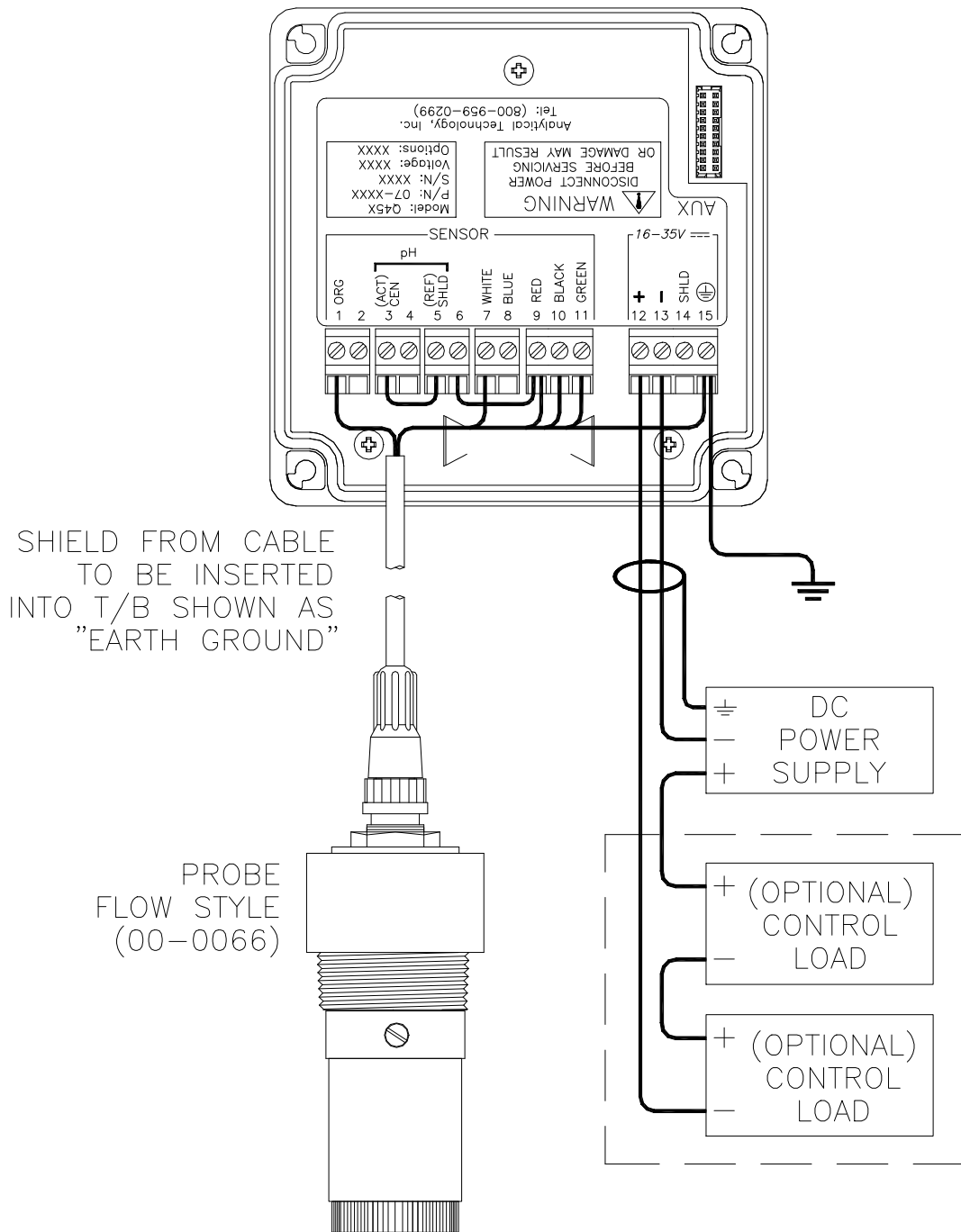POWER SUPPLY AS SHOWN FOR
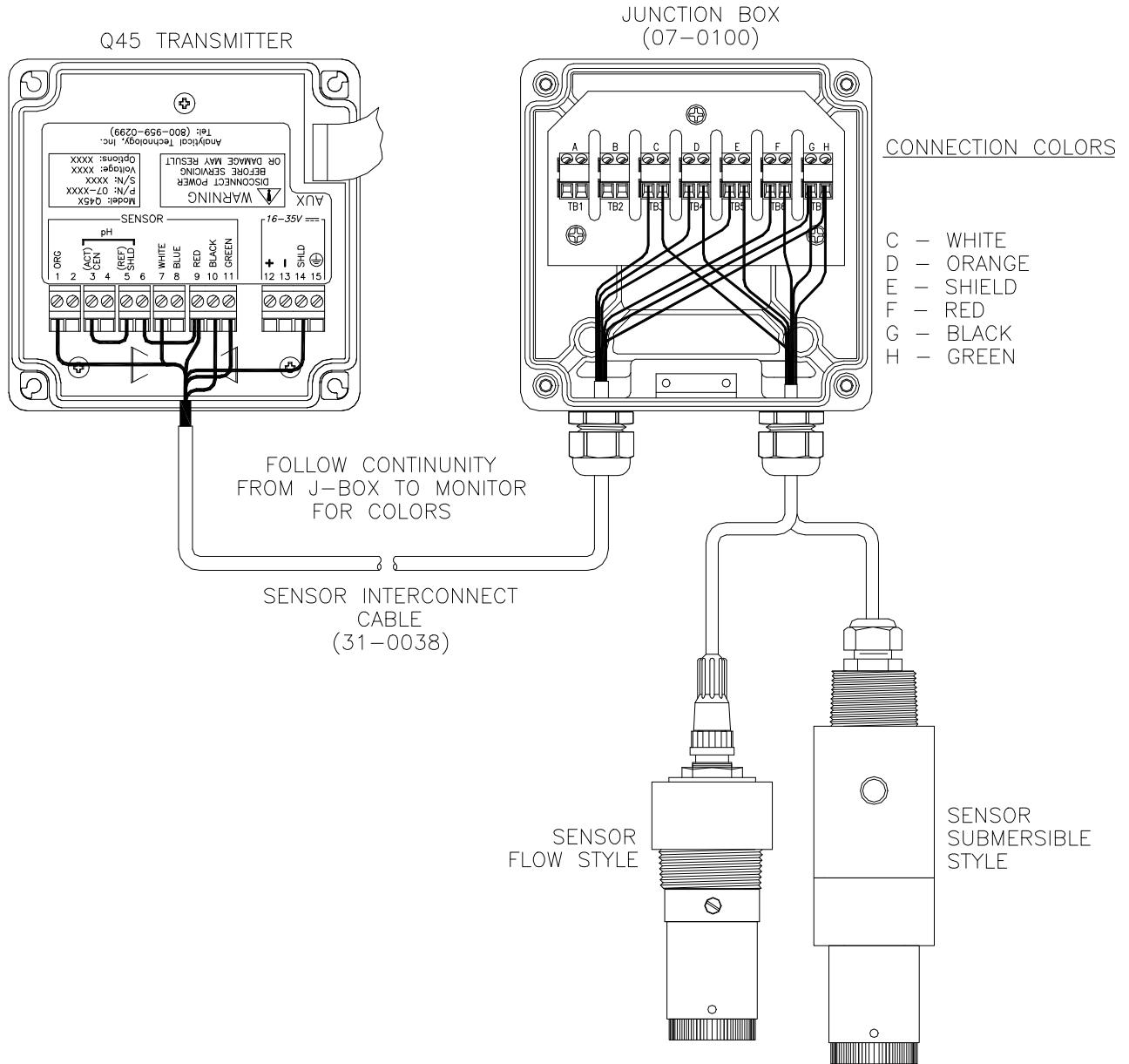12-24 VDC OPTION

RELAY WIRING TB3 DETAIL

NOTE: DEVICE EXTERNAL WIRING ARE TYPICAL EXAMPLES. RELAY CONTACTS SHOWN IN NORMAL MODE.

ELECTRICAL CONNECTIONS - 2-WIRE TRANSMITTER

SHIELD FROM CABLE TO BE INSERTED INTO T/B SHOWN AS "EARTH GROUND"

PROBE FLOW STYLE (00-0066)

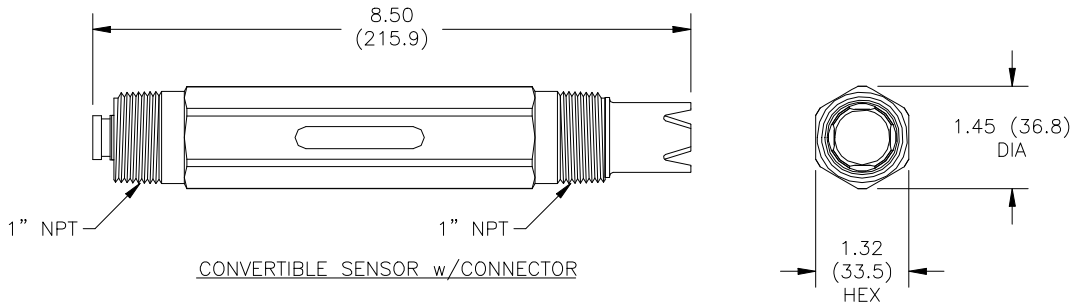DC POWER SUPPLY

+ (OPTIONAL) CONTROL LOAD

+ (OPTIONAL) CONTROL LOAD

NOTES: 1. Voltage between Terminals 12 & 13 MUST be between 16 & 35 VDC.
2. Earth ground into Terminal 15 is HIGHLY recommended. This connection can greatly improve stability in electrically noisy environments.

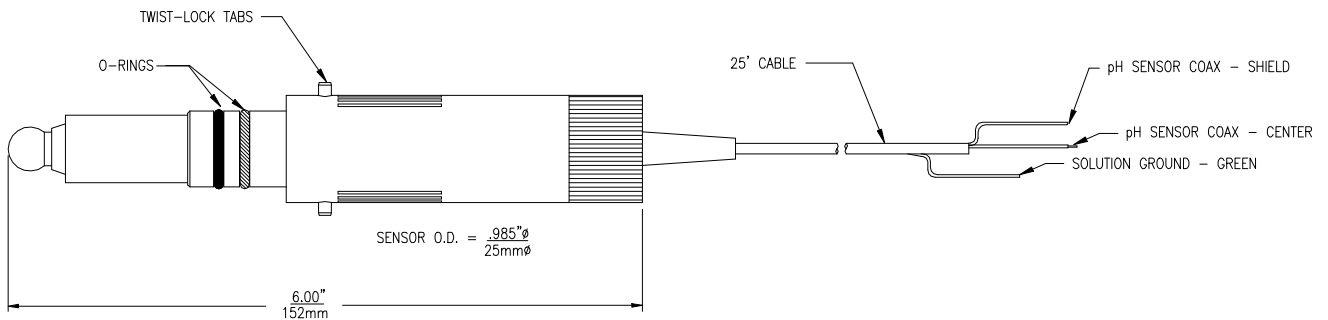ATI-0658

SENSOR CONNECTIONS - REMOTE JUNCTION BOX

Q45 TRANSMITTER

JUNCTION BOX
(07-0100)

CONNECTION COLORS

C — WHITE
D — ORANGE
E — SHIELD
F — RED
G — BLACK
H — GREEN

FOLLOW CONTINUNITY
FROM J—BOX TO MONITOR
FOR COLORS

SENSOR INTERCONNECT
CABLE
(31-0038)

SENSOR
FLOW STYLE

SENSOR
SUBMERSIBLE
STYLE

ATI-0714

OPTIONAL pH SENSOR DIMENSIONS

8.50
(215.9)

1" NPT   1" NPT

CONVERTIBLE SENSOR w/CONNECTOR

1.45 (36.8)
DIA

1.32
(33.5)
HEX

OPTIONAL pH SENSOR (BAYONET STYLE) DIMENSIONS

TWIST-LOCK TABS

O-RINGS

25' CABLE

pH SENSOR COAX – SHIELD

pH SENSOR COAX – CENTER

SOLUTION GROUND – GREEN

SENSOR O.D. = $\frac{.985"\phi}{25mm\phi}$
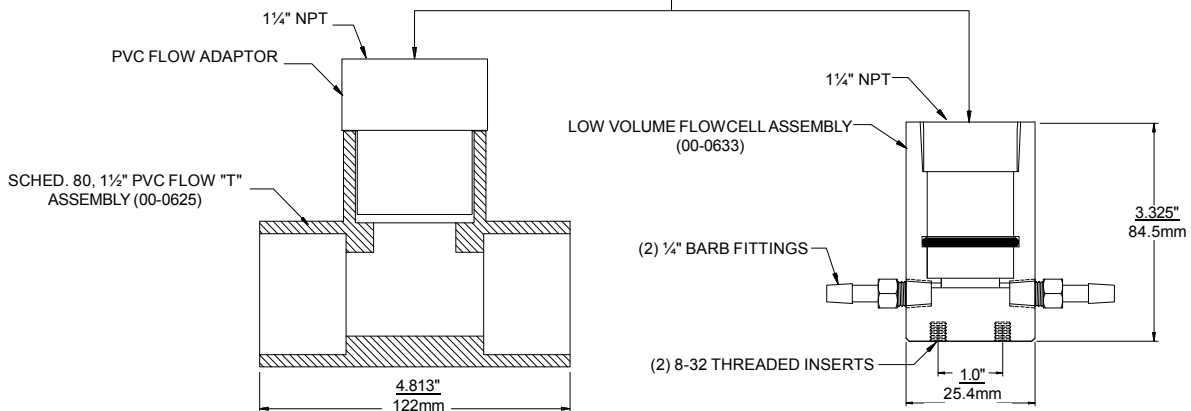
$\frac{6.00"}{152mm}$

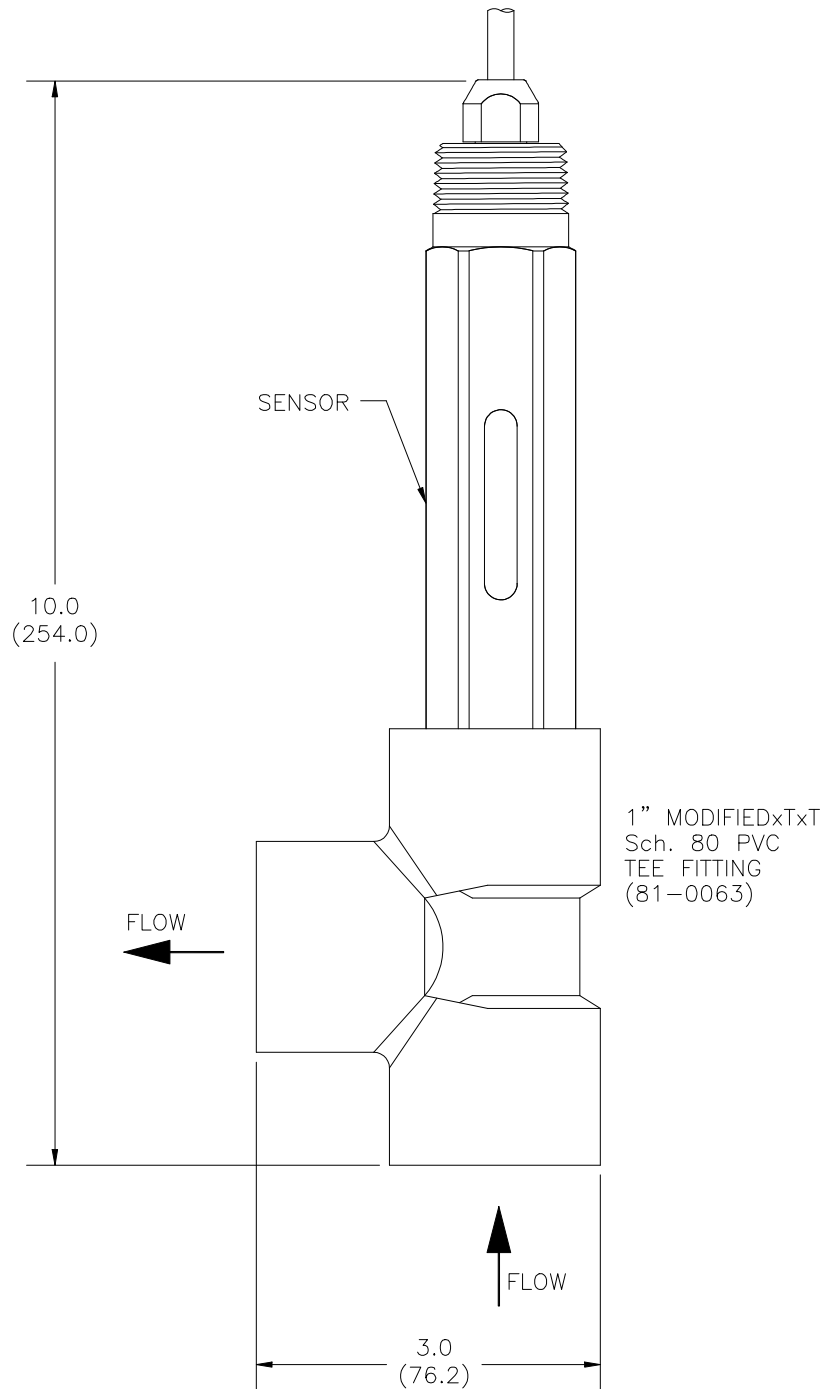## SPECIAL APPLICATION FLOWCELLS (CONSULT FACTORY)

CONNECTOR

1) Sensor Material:
   Noryl EN265 & Stainless Steel

2) Connector is not submersible.

3) Outer diameter of sensor:
   1.75" Dia.
   44.5mm Dia.

1¼" NPT

Cl_2 FLOW SENSOR
P/N: 00-0066

4.20"
107mm
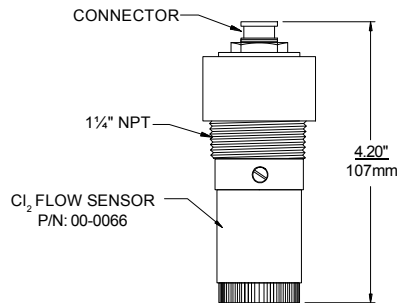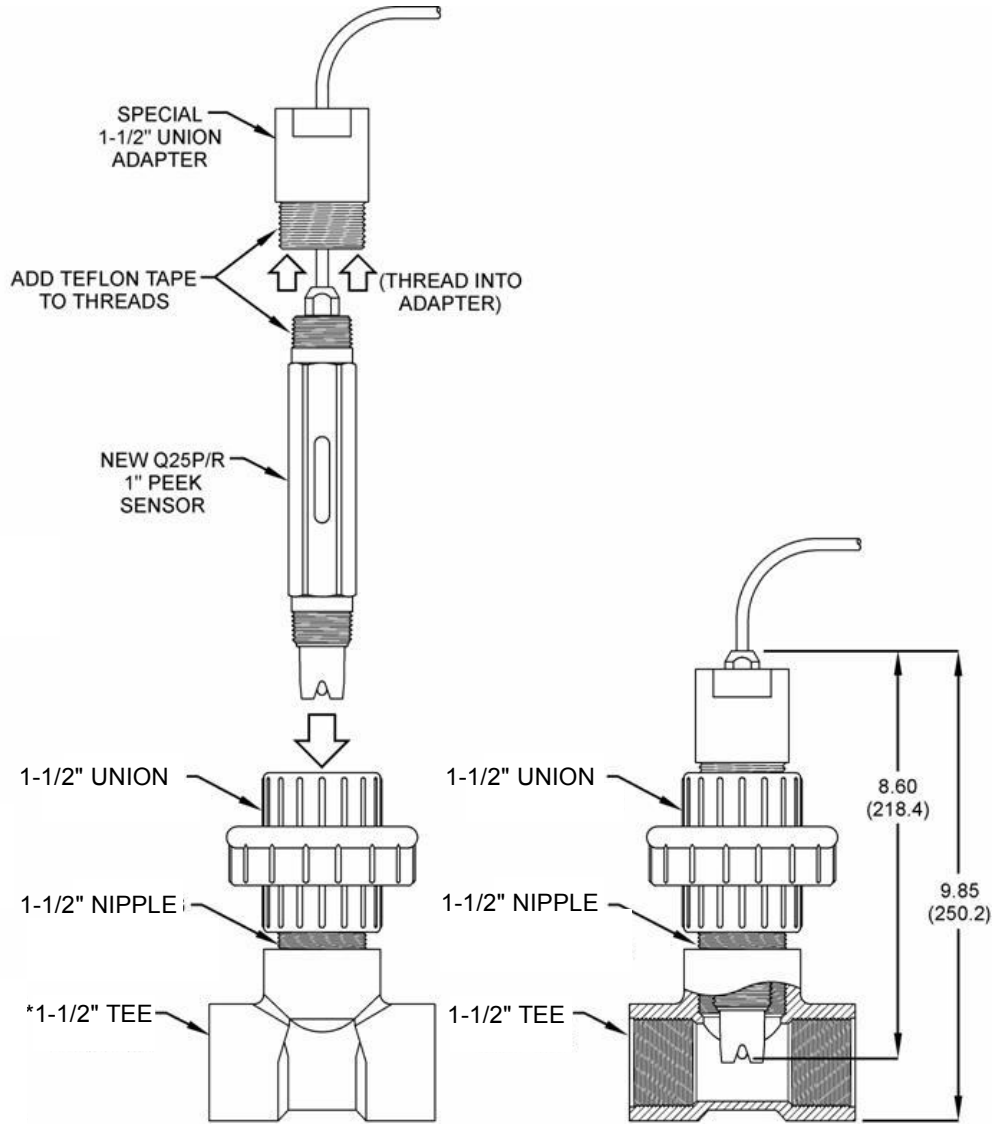
Flow "T":

1) Max. 50 PSI for Flow "T"
   operation.

2) Use Teflon tape to seal In-Line
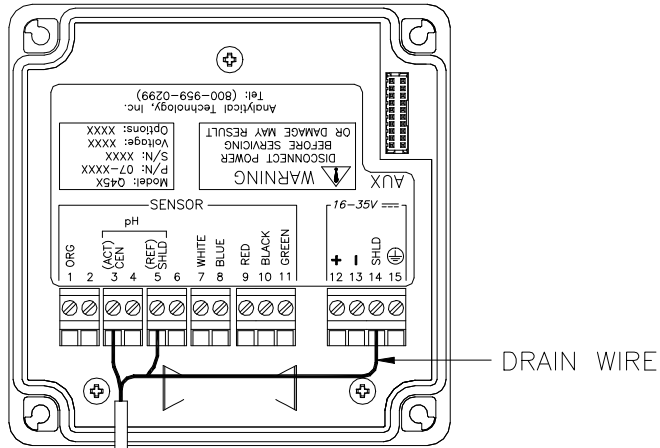   Sensor.

Low Volume Flowcell:

1) Material: Clear Acrylic

1¼" NPT

PVC FLOW ADAPTOR

SCHED. 80, 1½" PVC FLOW "T"
ASSEMBLY (00-0625)

LOW VOLUME FLOWCELL ASSEMBLY
(00-0633)

1¼" NPT

3.325"
84.5mm

(2) ¼" BARB FITTINGS

(2) 8-32 THREADED INSERTS

$\frac{4.813"}{122mm}$

$\frac{1.0"}{25.4mm}$

ATI-0197

SPECIAL APPLICATION FLOWCELL (CONSULT FACTORY)

SENSOR

10.0
(254.0)

1" MODIFIEDxTxT
Sch. 80 PVC
TEE FITTING
(81—0063)

FLOW

FLOW

3.0
(76.2)

ATI-0727

SPECIAL APPLICATION FLOWCELL (CONSULT FACTORY)

SPECIAL
1-1/2" UNION
ADAPTER

ADD TEFLON TAPE
TO THREADS

(THREAD INTO
ADAPTER)

NEW Q25P/R
1" PEEK
SENSOR

1-1/2" UNION

1-1/2" NIPPLE

*1-1/2" TEE

1-1/2" UNION

1-1/2" NIPPLE
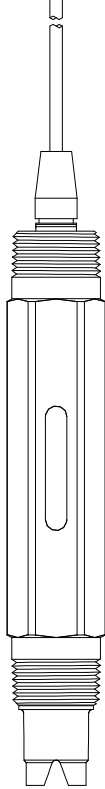
1-1/2" TEE

8.60
(218.4)

9.85
(250.2)

* 1-1/2" TEE Fitting not supplied with P/N (07-0221). Tee Fitting must be ordered Separately
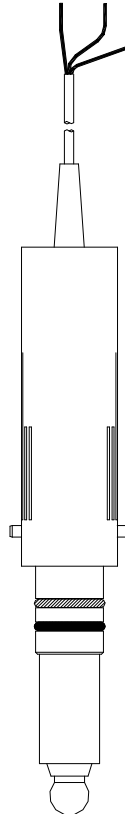
OPTIONAL pH SENSOR CONNECTIONS

DRAIN WIRE

(07-0096) SENSOR CONNECTIONS
RED - 3
BLACK - 5
SHIELD - 14

(63-0101) SENSOR CONNECTIONS
3 - CENTER COND.
5 - SHIELD (BRAID)
7 - GREEN

ATI-0660

SENSOR CONNECTIONS - Cl$_2$ / pH WITH JUNCTION BOX

(63-0101) Bayonet Style pH Probe <u>CANNOT</u> be used in a remote application