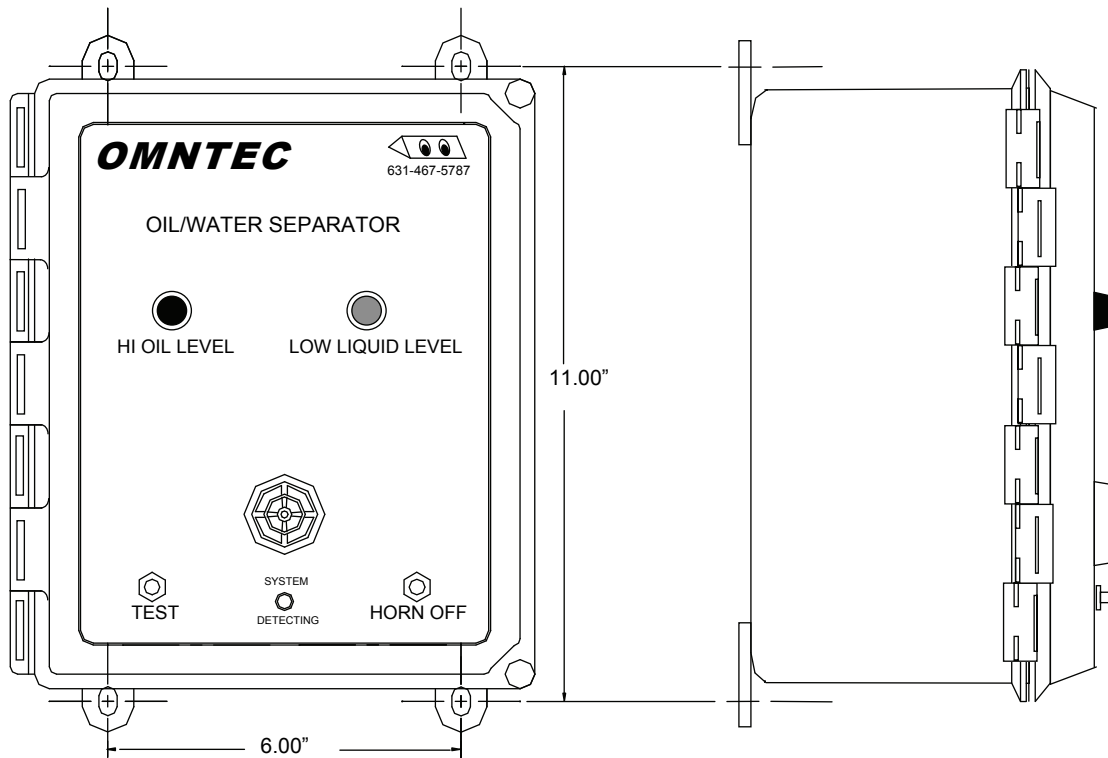


## OIL WATER SEPARATOR ALARM CONSOLE

**SPECIFICATIONS****POWER INPUT**

85-125 VAC, 47-440 Hz  
16 Watts maximum

**POWER TO SENSORS**

13.80 VDC @ 13 ma

**RELAY OUTPUT**

SPST normally open dry contacts 1.25 AMPS, 120  
AC/DC switches when an alarm condition occurs

**WEIGHT**

6 LBS.

**ENCLOSURE**

NEMA 4X

**DIMENSIONS**

(W) 9" x (H) 10.5"

**SENSOR CABLE**

Shielded 22 AWG UL-E118830 CM  
Maximum length 2000 feet

**ENCLOSURE**

NEMA 4X

**OPERATING TEMPERATURE**

-40° to 140° F

**UL LISTED**

Intrinsically safe circuits for use in class I  
group D hazardous locations when connected  
in accordance with control drawing LU2OW

**AUDIO/VISUAL CONSOLE**

**AUDIBLE ALARM** - 95 dB pulsing horn with no timeout

**HI OIL LIGHT** -Indicates oil has accumulated below the hi  
oil interface float

**LOW LIQUID LEVEL LIGHT** - indicates the liquid level has  
dropped below the liquid level float

**TEST BUTTON**- When pressed will actually test system  
electronics

**GREEN LIGHT**- indicates the power is on

**HORN OFF BUTTON** - Silences the audible alarm when  
pressed

**SENSORS**

OWP-2 Two point pump-out float sensor

**ACCESSORIES**

RA-1 audio/visual remote annunciator

RLY-RA Relay (consult factory)

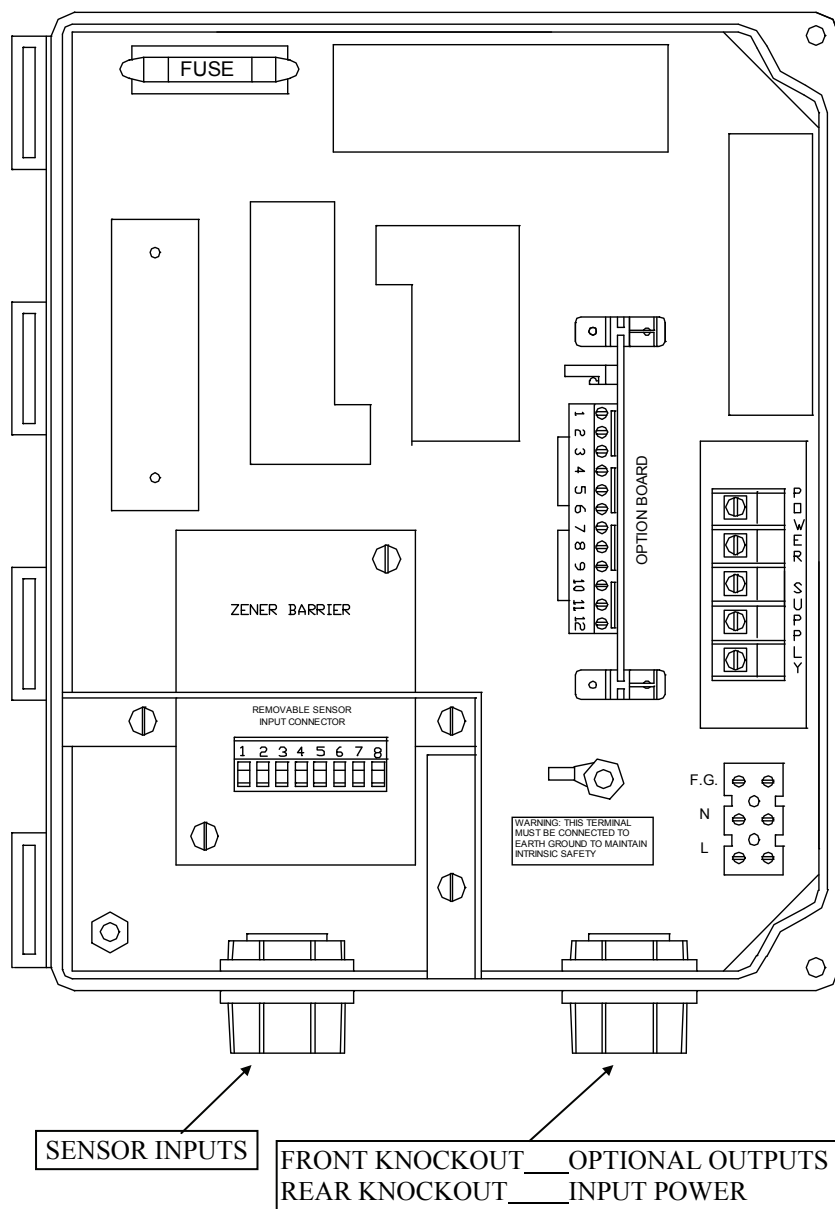
RA-1-NYS Remote annunciator with strobe (consult factory)

**LABELS**

Provided with controller

# ELP21LU2-OWP

## CONTROLLER CONNECTION DIAGRAM



### COLOR CODE

#### CABLES FROM SENSORS TO REMOVABLE SENSOR INPUT CONNECTORS

1	RED	SENSOR #1
2	WHITE	OWP-2
3	UNUSED	
4	UNUSED	
5	UNUSED	
6	UNUSED	
7	BLACK	FROM SENSOR #1
8	SHIELD DRAIN	FROM SENSOR #1

#### WIRES TO OPTION BOARD

##### WIRES FROM RA-SERIES REMOTE

1	GREEN	-HORN
2	RED	+HORN
3	BLACK	GROUND
4	WHITE	HIGH OIL LEVEL
5	ORANGE	LOW LIQUID LEVEL
6	UNUSED	

##### WIRES FROM RELAY OUTPUTS

7	UNUSED	
8	UNUSED	
9	COMMON	LOW LIQUID LEVEL
10	NORMALLY OPEN	
11	COMMON	HIGH OIL LEVEL
12	NORMALLY OPEN	(PUMP CONTROL)

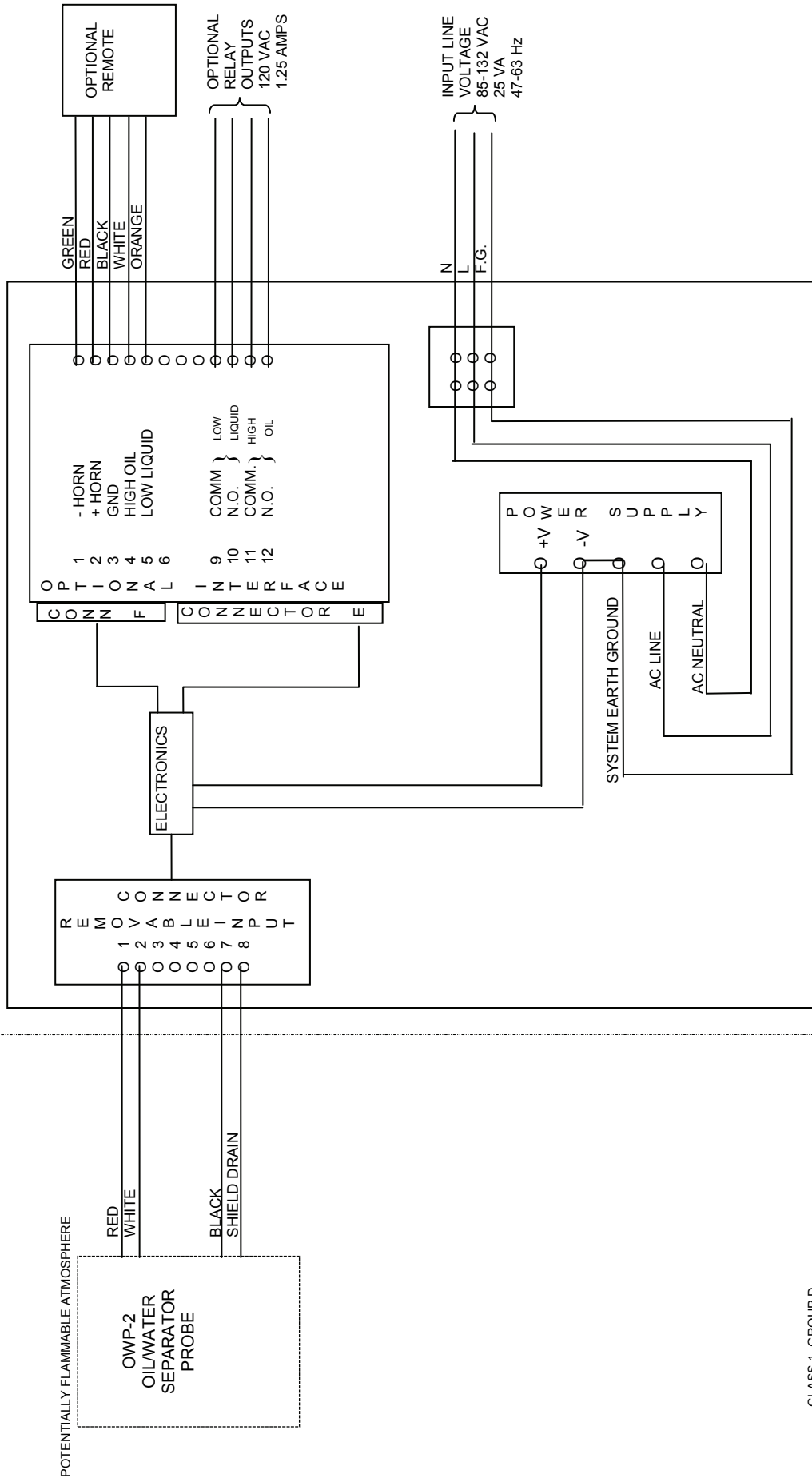
### 120VAC

#### WIRES TO POWER SUPPLY

F.G.	FIELD GROUND
L	LINE
N	NEUTRAL

NOTE: To maintain proper shielding, BLACK sensor wires and SHIELD DRAINS should **not** be connected together at sensors.

# ELP21LU2-OWP SYSTEM CONTROL DRAWING



CLASS 1, GROUP D  
HAZARDOUS AREA

NON-HAZARDOUS AREA

Control drawing no. LU2OWP

## NOTES ON PROBES

1. THE INTRINSICALLY SAFE FIELD WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 504 IN THE NATIONAL ELECTRICAL CODE ANSI/NFPA 70
2. ALL PROBES ARE ELECTRICALLY IDENTICAL AND MAY BE INTERCHANGED ALLOWING SYSTEM FLEXIBILITY
3. PROBE TO CONTROL UNIT CABLE WILL BE TWO PAIR OF #22 AWG WITH SHIELD AND DRAIN PVC JACKETED UL-118830 CM. CABLE LENGTH WILL BE LIMITED TO 2000 FEET MAXIMUM

## NOTES ON CONTROL EQUIPMENT

1. ALL WIRING MUST MEET LOCAL AND NATIONAL ELECTRICAL CODES
2. SYSTEM EARTH GROUND MUST BE CONNECTED TO TERMINAL F.G. TO INSURE INTRINSIC SAFETY AND MUST BE LESS THEN 1Ω WITH RESPECT TO EARTH GROUND
3. OPTIONAL REMOTE REQUIRES #22 AWG LOW VOLTAGE COMMUNICATION CABLE MINIMUM

**OMNTEC** Mfg., Inc.

1993 Pond Rd., Ronkonkoma, New York 11779

Phone 631-981-2001

Fax 631-981-2007

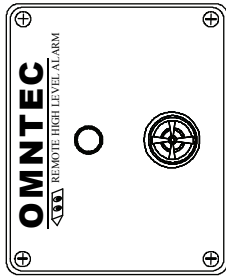
3 of 8

[www.OMNTEC.com](http://www.OMNTEC.com)

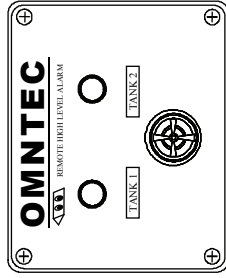
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# RA-Series Remote High Level Alarm

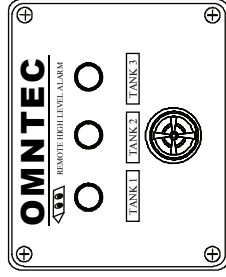
RA-1



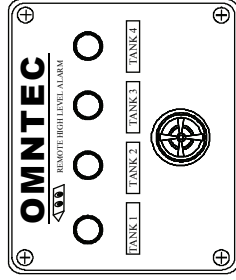
RA-2



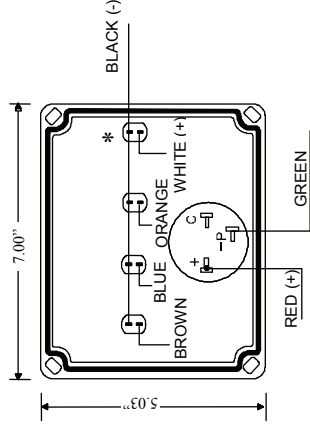
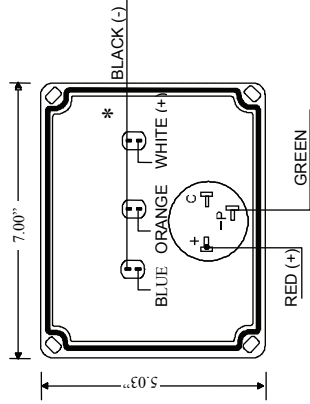
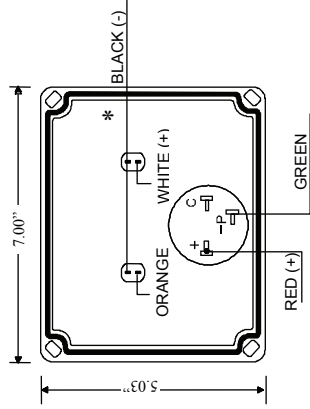
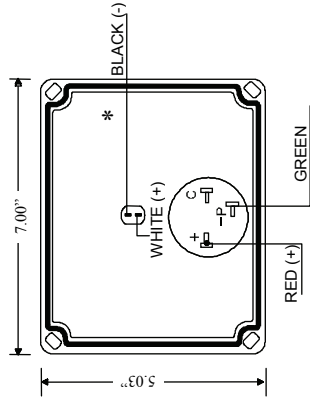
RA-3



RA-4



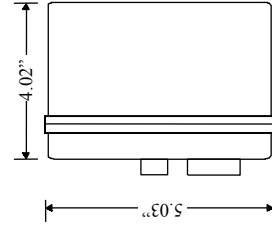
## Internal Wiring Color Code



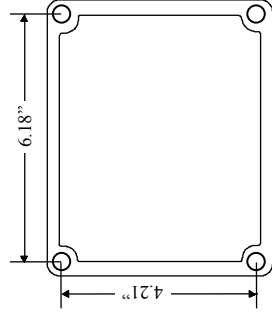
\* **WARNING LABEL PLACED HERE:** Warning: Low voltage inputs only

SPECIFICATIONS	
Audible Alarm	95 dB pulsing horn
Red Light	Liquid-high-level alarm
Response Time	Immediate
Power Input	12VDC @200mA maximum from controller
Wire	22 AWG minimum
Weight	1 lb.

## SIDE VIEW



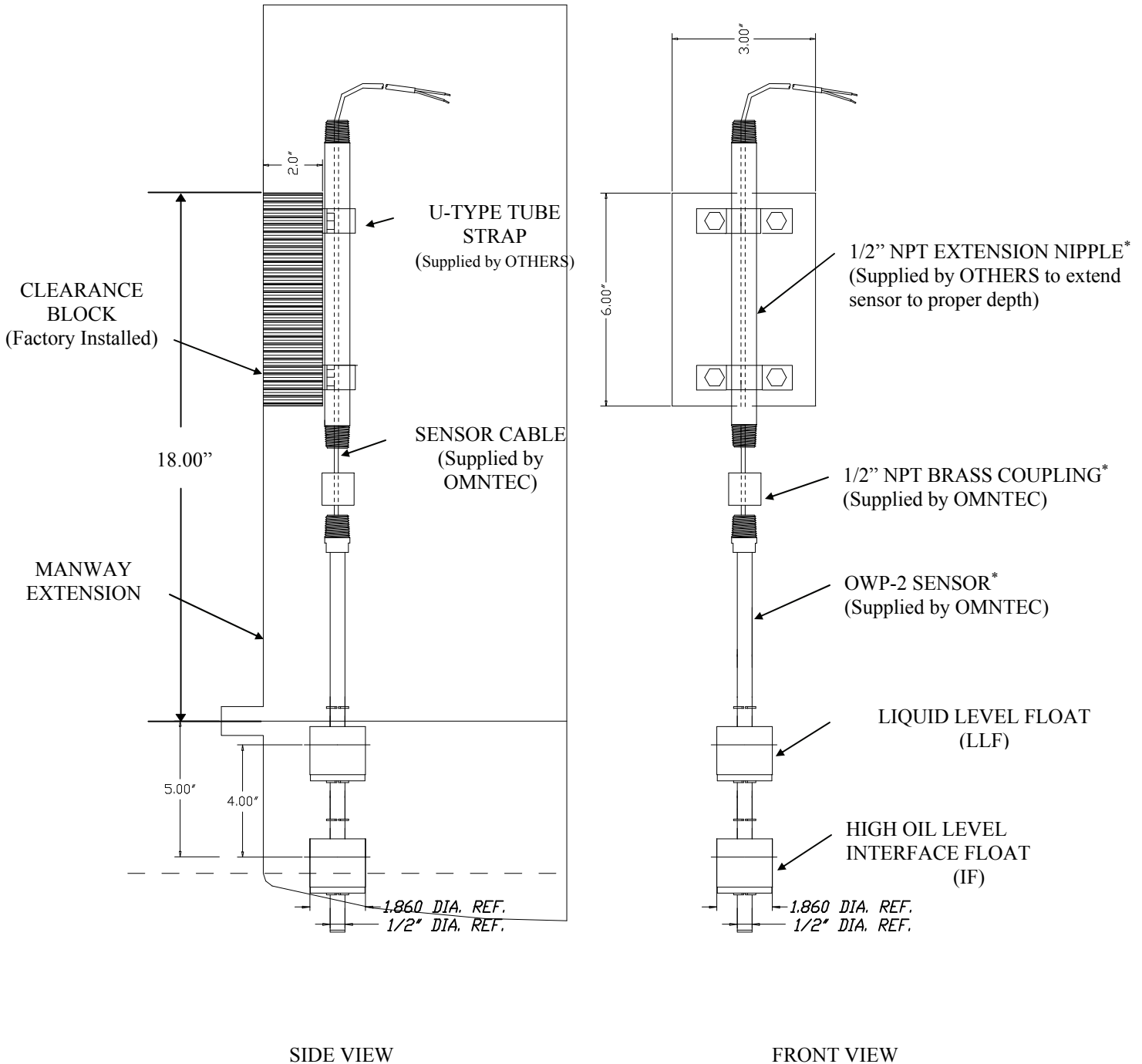
## MOUNTING DIMENSIONS



Note: It is recommended that knockouts be placed in the bottom of the enclosure

# OWP-2 OIL WATER SEPARATOR

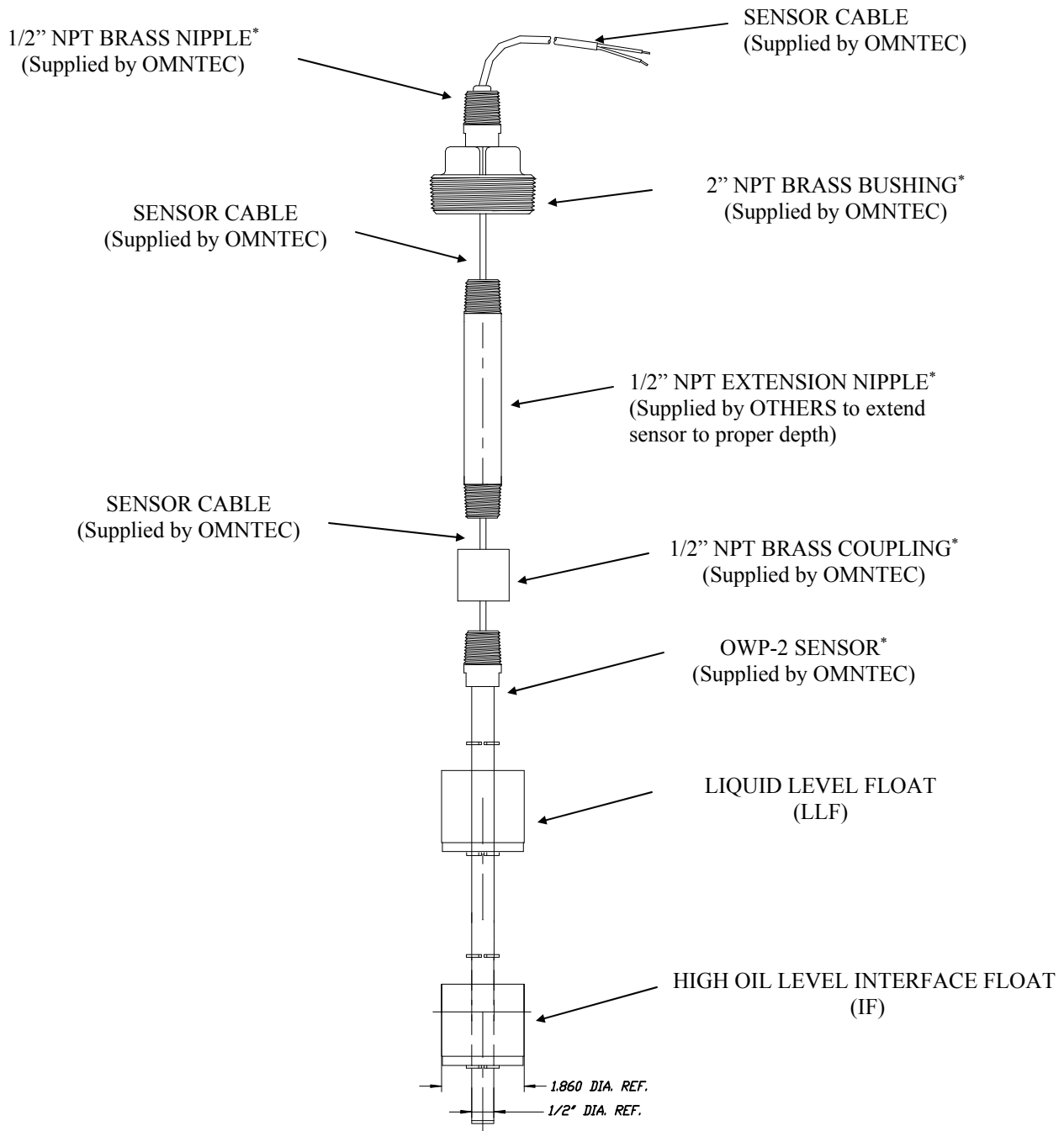
## TYPICAL MANWAY EXTENSION BRACKET INSTALLATION



\* **WARNING-** It is the installer's responsibility to select a thread sealant that is compatible with the product being stored and that all NPT fittings are fastened properly to assure liquid tight seal for proper sensor operation.

# OWP-2 OIL WATER SEPARATOR

## TYPICAL MANWAY EXTENSION BRACKET INSTALLATION



\* **WARNING-** It is the installer's responsibility to select a thread sealant that is compatible with the product being stored and that all NPT fittings are fastened properly to assure liquid tight seal for proper sensor operation.



## WARRANTY

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The seller OMNTEC Mfg., Inc. warrants to buyer, for one year: That all components meet specifications herein. All components are free of defects when properly installed, and maintained by user. The sellers sole obligation is to repair or replace parts found to be defective, or non-conforming after evaluation by factory. The liability of the seller shall not exceed the price paid for the components found to be defective. The above warranty is exclusive of all other warranties whether implied or expressed. Seller assumes no obligation for special or, indirect damages incurred by user.