



# OMNTEC

Advanced Tank Monitoring & Leak Detection



1. Open the camera app
2. Focus the camera on the QR code by gently tapping the code
3. Follow the instructions on the screen to view PDF file

# RD625-1-HLO

FOR OEL8000IIIK/X GenIV

# INSTALLATION GUIDE



## REMOTE DISPLAY

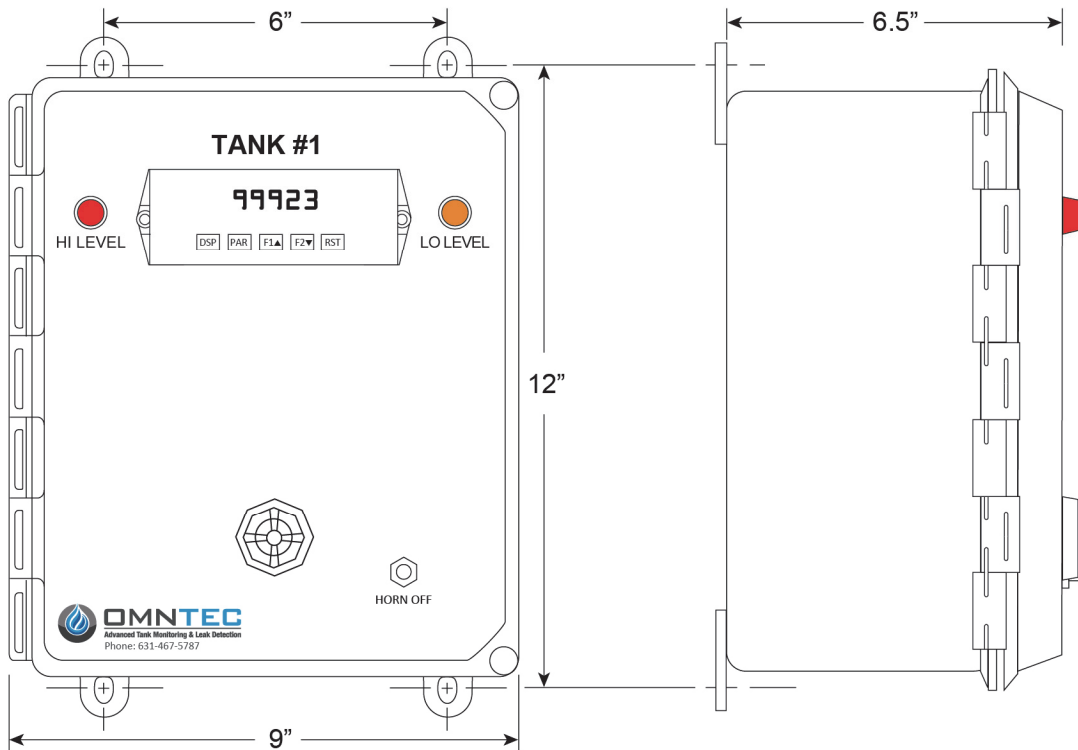
Revision 2619

Document No. RD625-1-HLO

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## RD625-1-HLO REMOTE DISPLAY



### RD625-1-HLO SPECIFICATIONS

**POWER INPUT**

120-volt AC

**OPERATING TEMPERATURE**

0 to 50 deg. C

**WEIGHT**

10 Pounds

**ENCLOSURE**

TYPE 4X

**COMPATIBLE CONTROLLERS**

OEL8000IIIK GenIV  
OEL8000IIIX GenIV

**AUDIO/VISUAL CONSOLE**

**AUDIBLE ALARM** - 95 dB pulsing horn with 30 second timeout

**LED DIGITAL DISPLAY** - Tank volume

**RED LIGHT** - Hi Level alarm indication

**AMBER LIGHT** - Lo Level alarm indication

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

**TEST BUTTON** - Test system lights and horn

**INPUT**

MB-232/485 From OEL8000IIIK and OEL8000IIIX

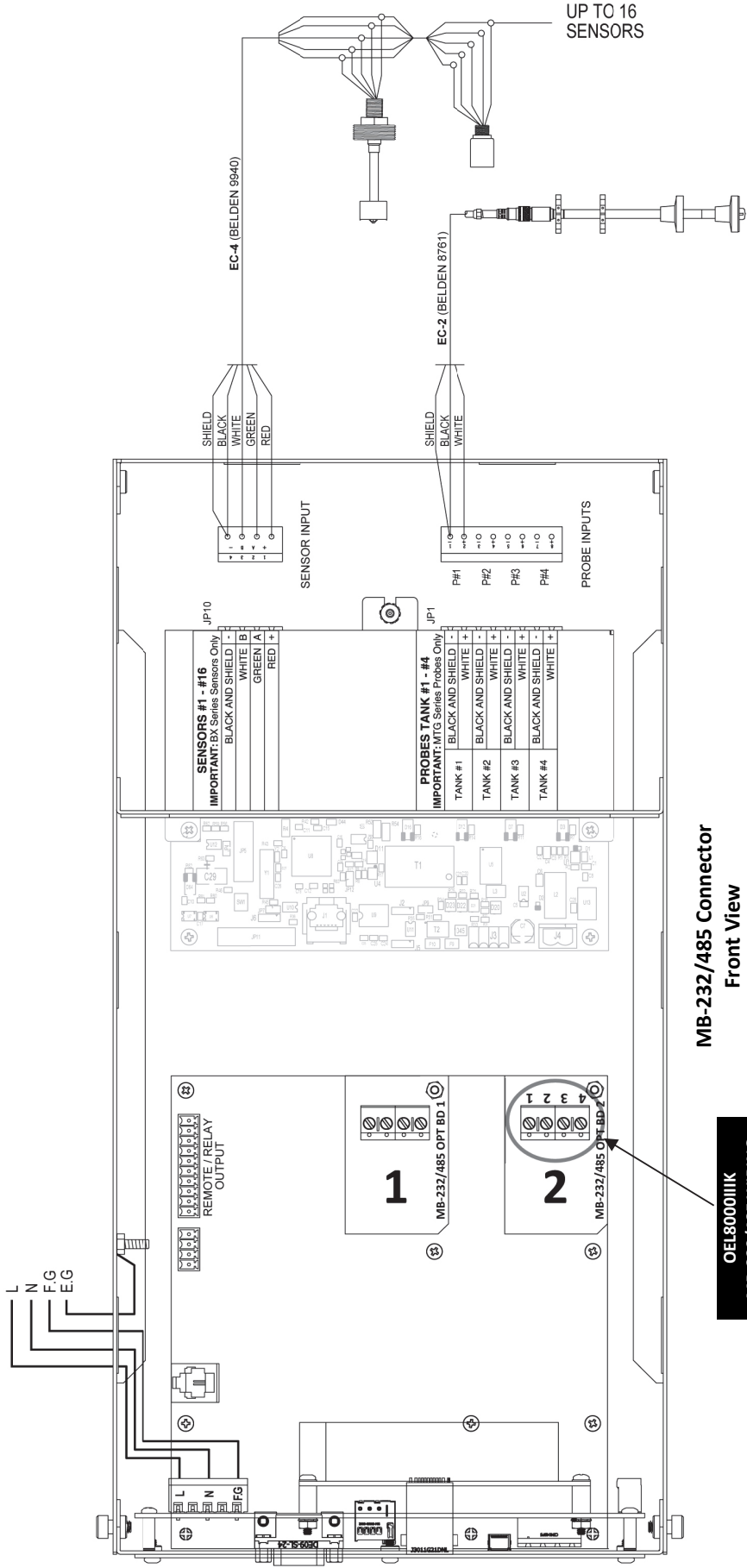
MCU J16 Remote/Relay Output

XC-R8 Relay output

XB-RB8 Relay output from OEL8000IIIX

**IMPORTANT:** Cable runs not to exceed 2000 feet.

# OEL8000IIK MB-232/485 WIRING



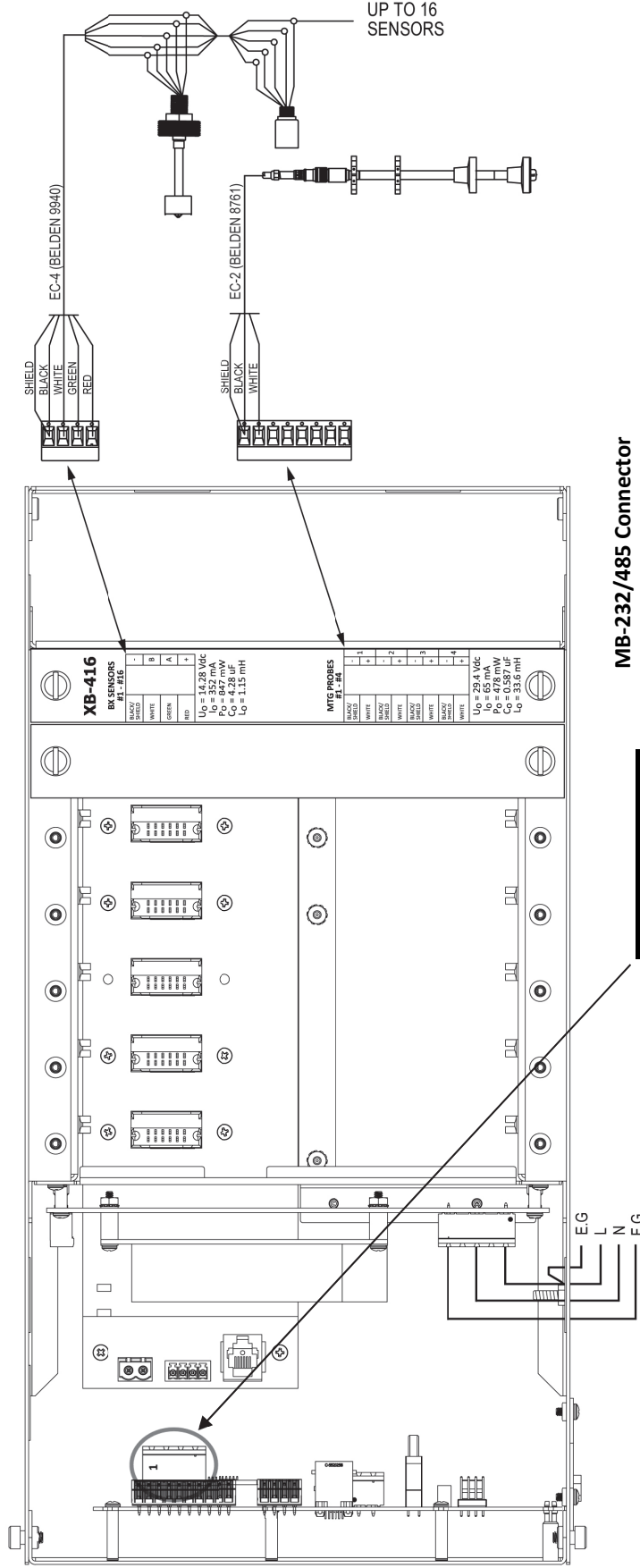
**MB-232/485 Connector  
Front View**

4	3	2	1
NC	+	-	GND

OEL8000IIK MB-232/485 WIRING	
1	BLACK (GND)
2	RED (-)
3	WHITE (+)
4	UNUSED

Note: Slot 1 or Slot 2 can be used for MB-232/485 board.

# OEL8000IIX MB-232/485 WIRING



**XB-416**  
BX SENSORS  
#1 - #16

SHIELD	BLACK	WHITE	GREEN	RED
	A	B		

$U_0 = 14.28 \text{ Vdc}$   
 $I_0 = 352 \text{ mA}$   
 $P_0 = 4.78 \text{ mW}$   
 $C_0 = 4.28 \mu\text{F}$   
 $L_0 = 1.15 \text{ mH}$

**MTG PROBES**  
#1 - #4

SHIELD	BLACK	WHITE	BLACK	WHITE
	1	2	3	4

$U_0 = 79.4 \text{ Vdc}$   
 $I_0 = 65 \text{ mA}$   
 $P_0 = 4.78 \text{ mW}$   
 $C_0 = 4.28 \mu\text{F}$   
 $L_0 = 53.6 \text{ mH}$

UP TO 16 SENSORS

**MB-232/485 Connector**

Front View

4	3	2	1

NC + - GND

**OEL8000IIX**  
**MB-232/485 WIRING**

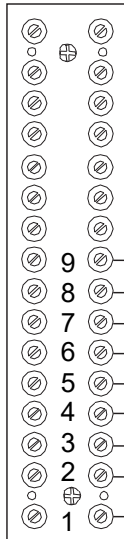
1	BLACK (GND)
2	RED (-)
3	WHITE (+)
4	UNUSED



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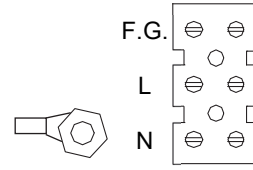
## RD625-1-HLO WIRING



- 9 — ORANGE — OUTPUT 2 LO LEVEL T1
- 8 — WHITE — OUTPUT 1 HI LEVEL T1
- 7 — GREEN — (-) HORN
- 6 — BLUE — HORN ACK
- 5 — BLACK — GROUND
- 4 — RED — (+)12V
- 3 — BLACK — to RS-485 in OEL8000IIIK/X
- 2 — WHITE — to RS-485 in OEL8000IIIK/X
- 1 — RED — to RS-485 in OEL8000IIIK/X

MCU  
J16  
REMOTE

} XC-R8 (EXTERNAL)  
OR  
XB-RB8 (OEL8000IIIX)



WARNING: THIS TERMINAL  
MUST BE CONNECTED TO  
EARTH GROUND TO  
MAINTAIN INTRINSIC SAFETY

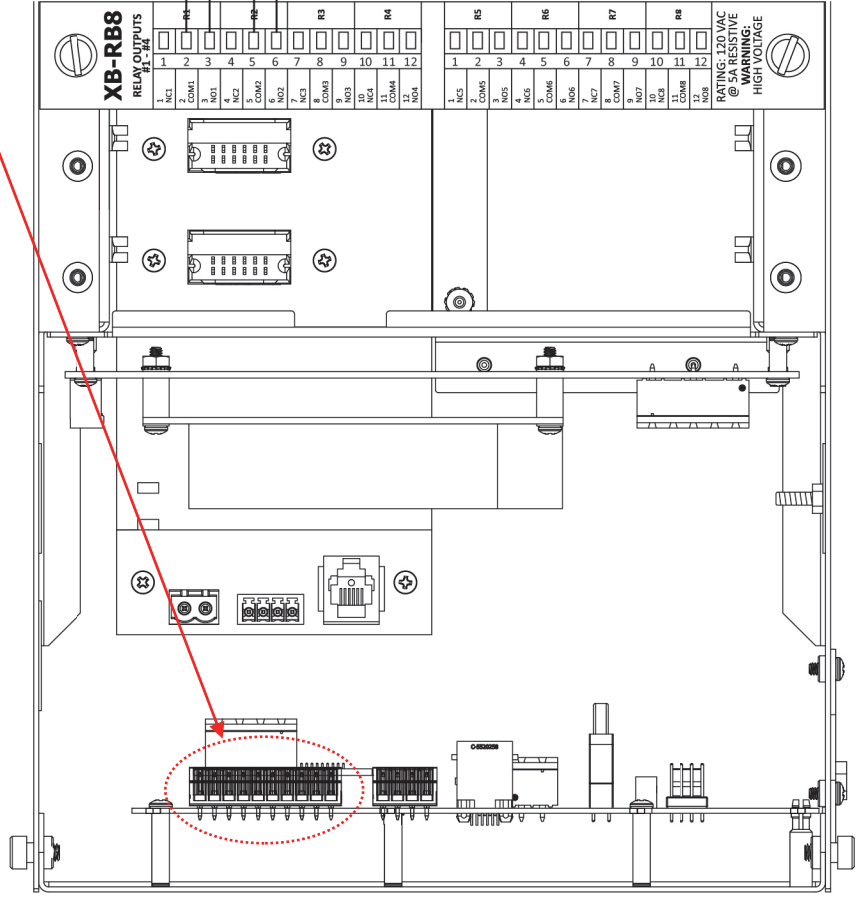
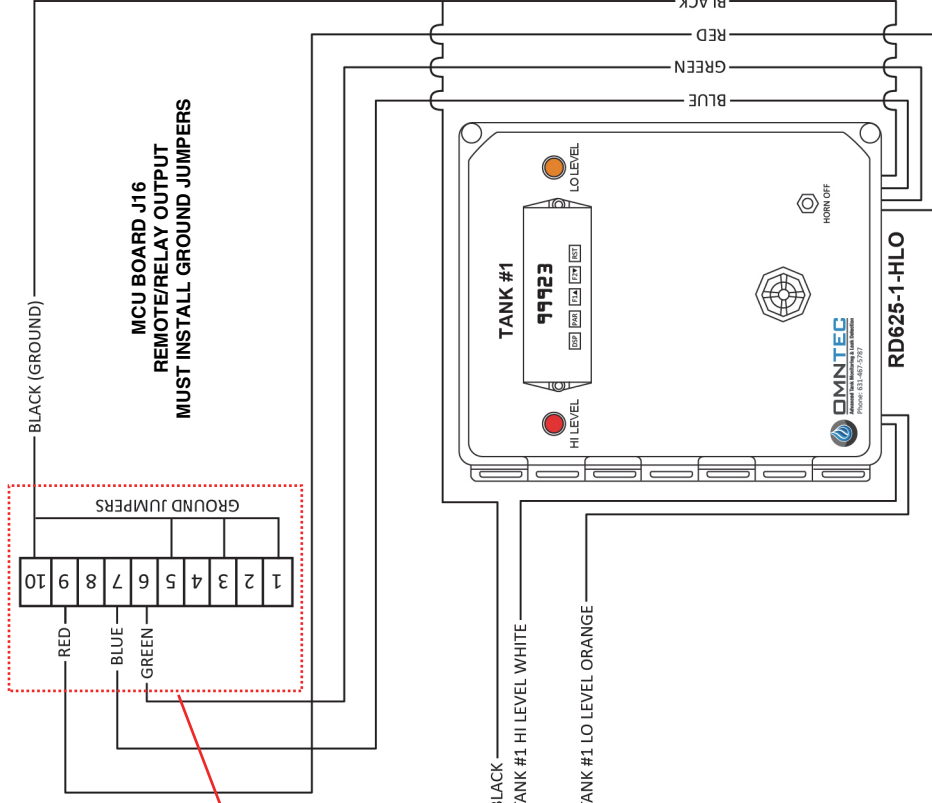




## OEL8000IIX / XB-RB8 / RD625-1-HLO WIRING

1	UNUSED
2	JUMPER TO PIN #5
3	WHITE TANK #1 HI LEVEL
4	UNUSED
5	GND MCU J16
6	ORANGE TANK #1 LO LEVEL
7	UNUSED
8	UNUSED
9	UNUSED
10	UNUSED
11	UNUSED
12	UNUSED

1	R1A	JUMPER TO PIN #10 (GND)
2	R2A	UNUSED
3	R1B	JUMPER TO PIN #10 (GND)
4	R2B	UNUSED
5	R3A	JUMPER TO PIN #10 (GND)
6	R3B	JUMPER TO PIN #10 (GND)
7	IN1	BLUE (ACK)
8	IN2	UNUSED
9	+12V	RED (+12V)
10	GND	BLACK (GND)



**Important Notes:**

- Bring the annunciator cable into the annunciator via conduit.
- Ensure that the conduit connection is watertight.
- The optional annunciators (RD625 Series) require #22 AWG low voltage communication wire as a minimum.