

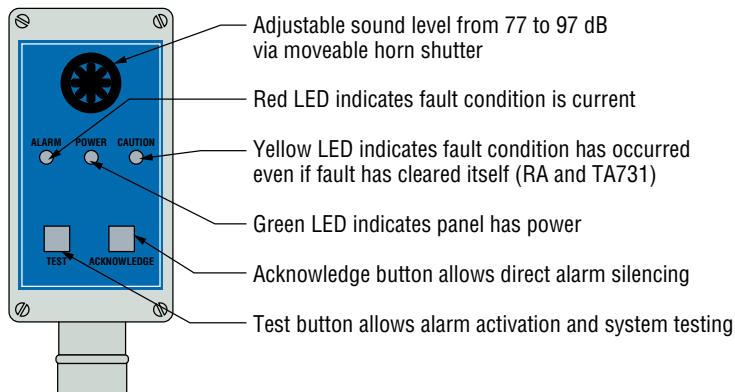
# RA431 and TA73x Alarm Panels Scream Warning @ 97 dB

## RA Features

- Can be used with conductivity probes
- Small footprint design
- Size 6 pan head screw connections

## TA Features

- Intrinsically safe approved
- Auxiliary contact for remote annunciation or cutoff
- One or two channels
- Two conduit connection hubs



RA-431 shown. TA Series includes an additional 1/2" NPT conduit connection for power.

## Specifications

<b>Supply Voltage</b>	120 VAC +10%/-15%, 4.8 VA Max.
<b>Indicators</b>	Red, Green and Yellow Solid-State LED's
<b>Audible Alarm</b>	Field Adjustable From 77 to 97 dB @ 2 Feet
<b>Enclosure</b>	
<b>TA Series</b>	Polycarbonate
<b>RA Series</b>	NEMA 4 – Weather tight polycarbonate
<b>Sensor Voltage</b>	12 VAC or 12 VDC
<b>Terminals</b>	Size 6 Pan Head Screws with Captive Wire Clamping Plate
<b>Temperature</b>	-22°F to +150°F (-5.5°C to +65.5°C)
<b>Sensitivity</b>	0-26K Ohm Maximum Specific Resistance
<b>Maximum Wire Run</b>	1000 Feet (14 or 16 Gauge MTW or THHN Wire)
<b>Conduit Connection</b>	3/4" FNPT, PVC Material
<b>Listings</b>	
<b>TA Series</b>	U.L. 913 Intrinsically Safe, File # E44570
<b>RA Series</b>	U.L. 508 Motor Control, File # E138209

## How To Order

Select Part Number based on switch logic and number of channels.

### RA Series

Used for non-hazardous liquid monitoring applications.

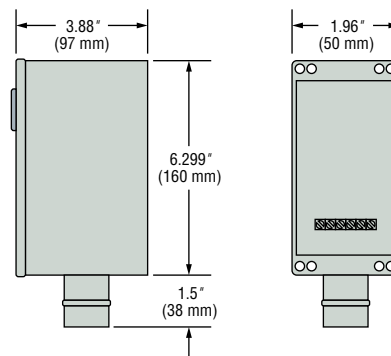
Interface Contacts	Part Number
N.O. Dry (Sensor Normally Dry)	<b>RA-431A-0</b>
N.C. Dry (Sensor Normally Wet)	<b>RA-431B-0</b>

### TA Series

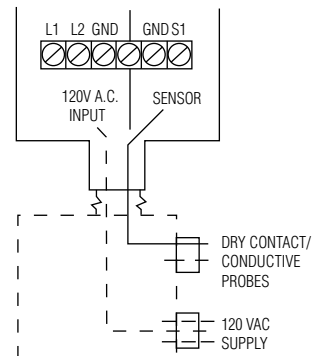
Intrinsically-safe for hazardous locations.

Interface Contacts	Number of Channels	Part Number
N.O. Dry (Sensor Normally Dry)	1	<b>TA-731A-0</b>
	2	<b>TA-732A-0</b>
N.C. Dry (Sensor Normally Wet)	1	<b>TA-731B-0</b>
	2	<b>TA-732B-0</b>

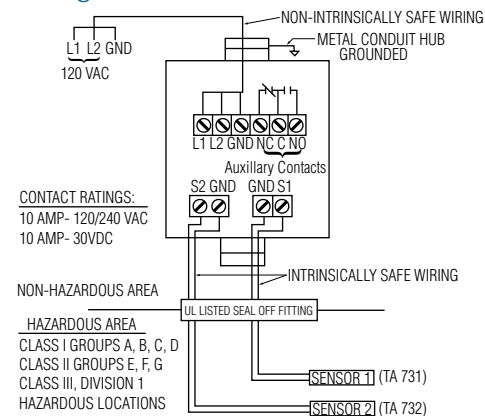
## Dimensions



## Wiring – RA Series



## Wiring – TA Series



# DMS 470/570 Series Leak Detection Systems for UST and AST Storage Tanks

- ▶ Low Cost
- ▶ U.L. Approved Intrinsically Safe
- ▶ Easily Maintained
- ▶ Audio/Visual Alarm

The DMS 470/570 monitoring systems are ideal for a number of UST and AST monitoring applications. The DMS 470 includes an audible bell while the DMS 570 uses a piezoelectric horn. Applications include vapor monitoring of monitoring wells surrounding single wall tanks, high/low product level alarms, vapor sensors for single wall piping and piping sump sensors for double wall piping.

## Auxiliary Contacts

Auxiliary alarm contacts are also available for interfacing to remote alarms, computers, tank gauging systems, phone dialers, etc.

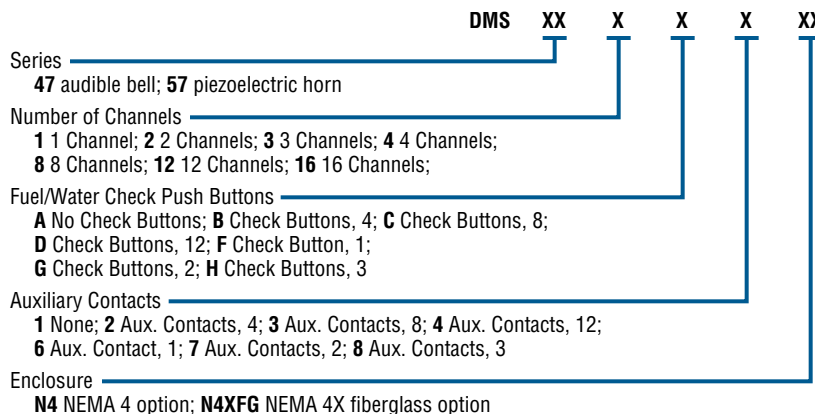
## Specifications

<b>Contact Design</b>	SPDT (1 form C), one normally open, one normally closed
<b>Contact Rating</b>	120 VAC or 30 VAC, 10A, 1/3 h.p.
<b>Sensitivity Range</b>	0-50,000 ohms max. specific resistance
<b>Remote Alarm Contact</b>	Terminals; 7 N.C., 8 com, 9 N.O.
<b>Primary Voltage</b>	120 VAC (+10%/-15%) 60 Hz
<b>Probe Voltage</b>	Nominal 12 VAC @ 6ma RMS
<b>Optional Auxiliary Contacts</b>	One relay contact per channel
<b>Optional "Check" Push Button Board*</b>	Terminals: Size four (4) pan head screw with a clamping plate; will accept up to 14 AWG.
<b>Enclosure Type</b>	NEMA 3R; optional NEMA 4, Weather-proof; optional NEMA 4X, Fiberglass
<b>Temperature</b>	-40°F to +150°F (-40°C to +65.5°C)
<b>Approval</b>	U.L. Listed (U.L. 913) E120178

\*For media discrimination in-storage tank

## How to Order

Use the **Bold** characters from the chart below to construct a product code. One set of auxiliary contacts is standard with every four (4) channels supplied. A common test button is standard for every four (4) channels supplied. The fuel/water check buttons listed below are used to distinguish water or hydrocarbon when three wire sensors are used. Each sensor or detection point requires its own channel.



## Applications

Above Ground Fuel Storage Tanks (AST)

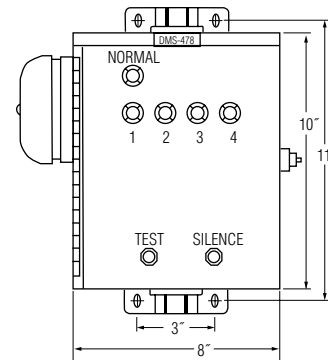
- Leak Detection
- Refill
- Overfill

Underground Fuel Storage Tanks (UST)

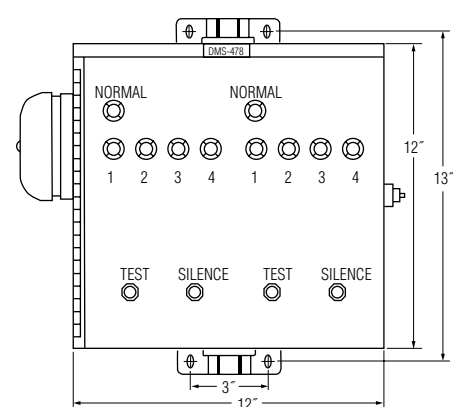
- High Level Alarm
- Piping Sumps
- Leak Detection
- Monitoring Well

## Dimensions

### 4 Channel



### 8 Channel



See Our Interstitial Tank Monitoring Products on page A-22.

