

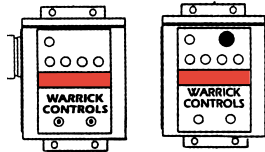


**WARRICK
CONTROLS**

DMS-470/570 SERIES

LEAK DETECTION SYSTEMS
for AST and UST Storage tanks

APPLICATIONS

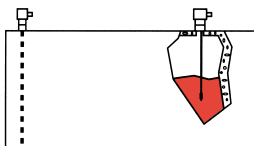


Non-Hazardous Area

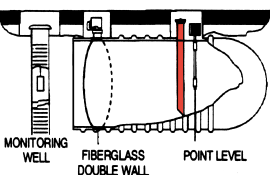
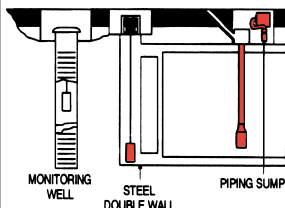
Seal Off Fitting

Hazardous Area

Aboveground Tanks
Leak Detection,
Overfill, Refill



Underground Tanks
High Level Alarm,
Leak Detection,
Piping Sumps,
Well Monitoring



GENERAL INFORMATION:

The DMS Series monitoring systems are ideal for many above-ground (AST) and underground (UST) storage tank applications: *vapor monitoring for single wall tanks, monitoring annular spaces in double wall tanks, high/low liquid level alarms, vapor sensors for single wall piping, and piping sump sensors for double wall piping.*

The DMS-470 includes an audible bell, while the DMS-570 model utilizes a piezoelectric horn. Both intrinsically safe models can also be ordered with auxiliary alarm contacts for interfacing with remote alarms, computers, tank gauging systems, phone dialers, etc.

FEATURES & BENEFITS

- U.L. 913 Listing (Intrinsically Safe)
- U.S. EPA Listed: Leak Detection Equipment
- Weatherproof NEMA 4 Enclosure
- 3rd Party Approved
- Reliable, Flexible Operation
- Easy to Maintain
- Audible/Visual Alarm

SPECIFICATIONS:

- **PRIMARY AC SUPPLY:** 120 VAC, +10%, -15%, 60Hz
- **PROBE VOLTAGE:** Nominal 12 VAC @ 6MA RMS
- **SENSITIVITY:** 0 - 50,000 ohms max. specific resistance
- **TEMPERATURE RANGE:** -40° F (-40° C) to 150° F (66° C)
- **REMOTE ALARM CONTACTS:** 7 terminals N.C., 8 com, 9 N.O.
 - ▲ CONTACT DESIGN: SPDT (1 form C), 1 N.O., 1 N.C.
 - ▲ CONTACT RATING: 120 VAC OR 30 VDC, 5A, 1/10 H.P.
 - ▲ CONTACT LIFE: Electrical = 100,000 cycles
Mechanical = 10 million cycles
- **MODULE TERMINALS:** Removable strip, size 4 pan head screw with clamping plate, accepts up to 14 AWG wire
- **OPTIONAL AUXILIARY BOARD:**
 - ▲ AUXILIARY CONTACTS: one relay contact per channel
 - ▲ CONTACT DESIGN: SPDT (1 form C), 1 N.O., 1 N.C.
 - ▲ CONTACT RATING: 120 VAC OR 30 VDC, 5A, 1/3 H.P.
 - ▲ CONTACT LIFE: Electrical = 100,000 cycles
Mechanical = 100 million cycles
- **AUXILIARY TERMINALS:** Removable strip, accepts up to 14 AWG wire
- **AUXILIARY CONNECTION:** 8-pin wire harness
- **OPTIONAL "CHECK" TERMINALS:** Size 4 pan head screw with clamping plate, accepts up to 14 AWG wire. "Check" pushbutton board and module terminal strip should be removed as an assembly from electronic module.

DMS-470/570 SERIES

ORDERING INFORMATION

One set of auxiliary contacts is standard with every (4) four channels supplied. A common test button is included as standard for every (4) four 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.

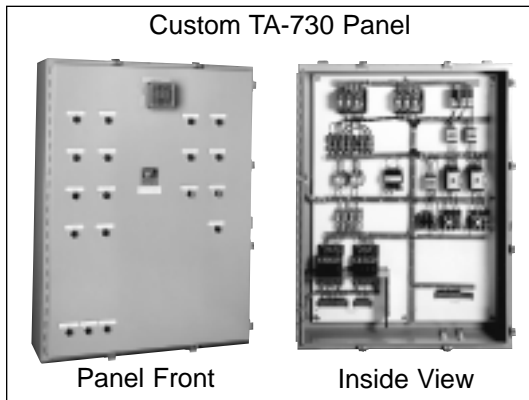
DMS-47X - X - X - XX

DMS-57X - X - X - XX

NO. OF CHANNELS		FUEL/WATER CHECK PUSH BUTTONS	AUXILIARY CONTACTS	ENCLOSURE OPTIONS
1	1 CHANNEL	A NO CHECK BUTTONS	1 NO AUX CTS.	- 4 NEMA 4
2	2 CHANNELS	B CHECK BUTTONS 1-4	2 AUX. CTS. 1-4	
3	3 CHANNELS	C CHECK BUTTONS 1-8	3 AUX. XTS. 1-8	
4	4 CHANNELS	D CHECK BUTTONS 1-12	4 AUX. CTS. 1-12	- 4X NEMA 4X
8	8 CHANNELS	E CHECK BUTTONS 1-16	5 AUX. CTS. 1-16	
12	12 CHANNELS	F CHECK BUTTONS 1	6 AUX. CTS. 1	
16	16 CHANNELS	G CHECK BUTTONS 1-2	7 AUX. CTS. 1-2	
		H CHECK BUTTONS 1-3	8 AUX. CTS. 1-3	

OTHER WARRICK PRODUCTS

Custom TA-730 Panel



Custom Panel Design Warrick offers custom control panel design and manufacturing services. We can construct control panels which conform to UL 508 and UL 913 standards. Panels can be used as oil/water separator controls, pump controls, high or low alarms, or leak detection for intrinsically safe and standard industrial applications. Contact your Warrick Controls representative with your custom control panel requirements.

For more information about Warrick products, please contact us to request our full line Product Selection Guide.

TA-730 Series Intrinsically Safe Monitoring Panel Warrick TA-730 intrinsically safe monitoring panels are your solution for simple tank monitoring needs. Mounted in a NEMA 3R enclosure, the TA-730 offers UL 912 approved monitoring of 1 or 2 switch contacts, or conductivity-based sensors located in a hazardous area (Class 1, Division 1, Groups A thru G). These panels give audible and visual alarms through the use of LEDs and piezoelectric horn. All panels are supplied with test and audible alarm silence buttons. They also offer auxiliary contacts for activation of remote alarms or other devices such as PLCs.

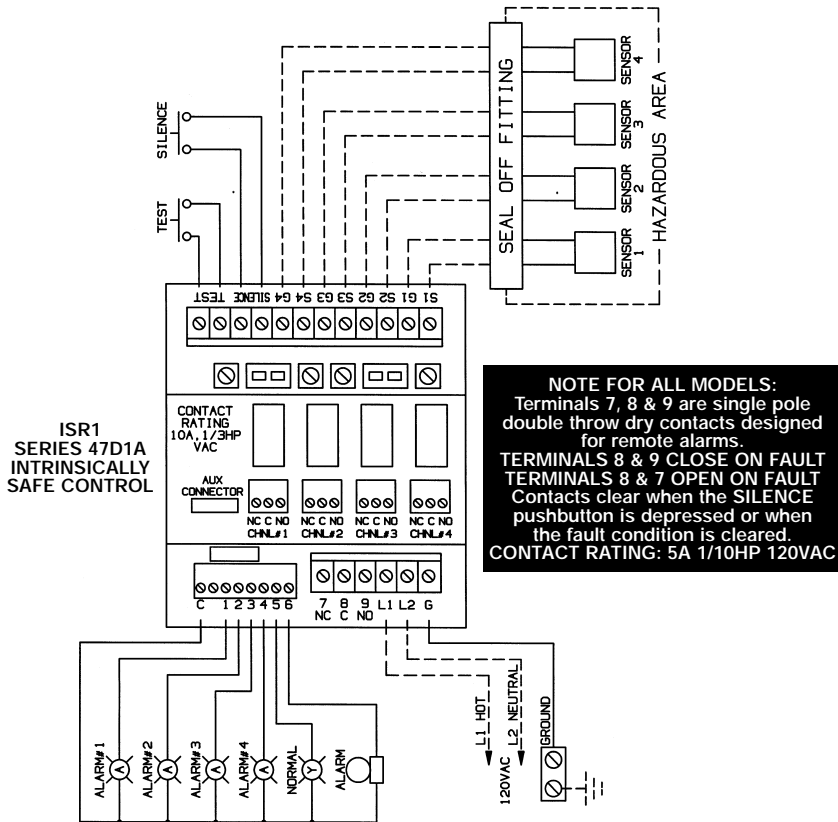


Authorized Distributor:

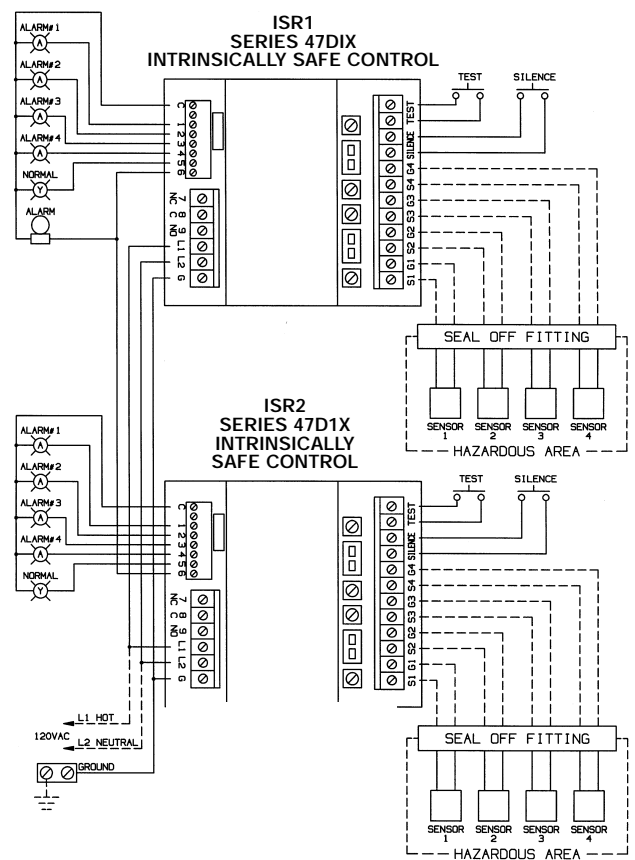


WIRING DIAGRAMS for DMS Series Leak Detectors

DMS-474-A-2 & DMS-574-A-2



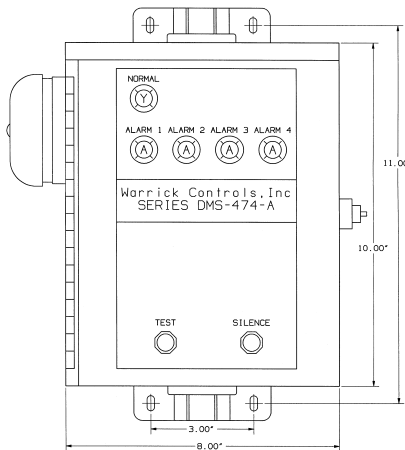
DMS-478-A-1 & DMS-578-A-1



PANEL DIMENSIONS for DMS Series Leak Detectors

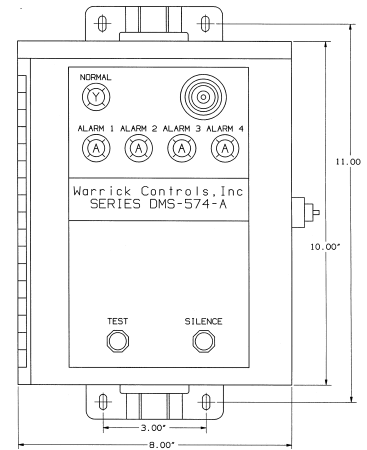
DMS-474-A

NEMA 3R
 10 x 8 x 6 ENCLOSURE



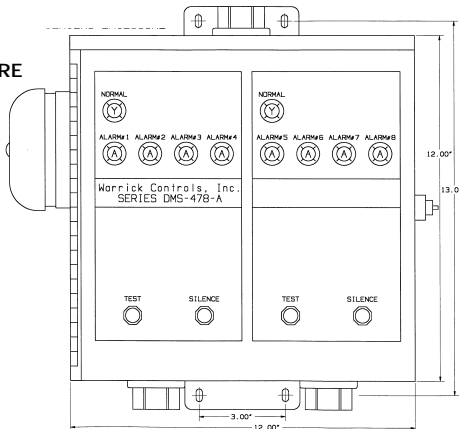
DMS-574-A

NEMA 3R
 10 x 8 x 6 ENCLOSURE



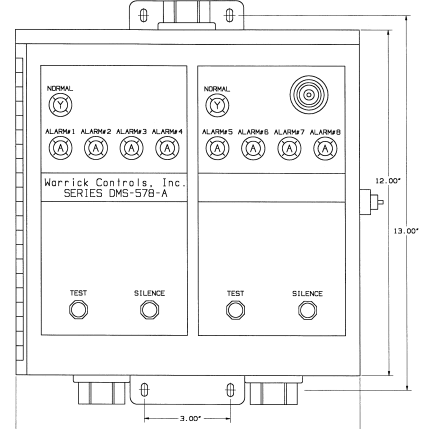
DMS-478-A

NEMA 3R
 12 x 12 x 6 ENCLOSURE



DMS-578-A

NEMA 3R
 12 x 12 x 6 ENCLOSURE

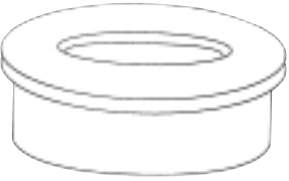
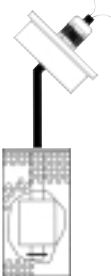
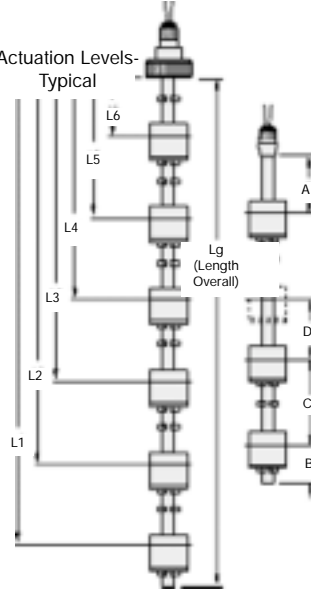


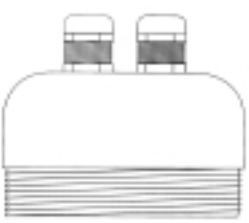
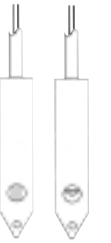

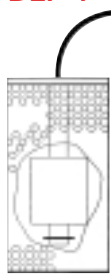


CAPS, PROBES & SENSORS

for DMS Leak Detection Systems

Warrick provides a complete line of accessory products that are compatible with DMS Series leak detection systems. We offer sensors, probes and tank caps designed especially for aboveground, underground, single and double wall tanks, steel and fiberglass tanks, single and multiple probes, and floats for high/low level alarm applications.

Using the chart on this page, you can easily determine which caps, probe assemblies and floats are appropriate for your application. Reading down the left column, simply find the type of tank that applies to your application. Then read across to the right to identify the recommended cap and probe assembly.

Tank Type	Tank Leak Detection System Cap	Leak Detection Probe Assembly	Product Level Alarm Sensors High/Low Alarm Sensor
Single Wall Tanks (Monitoring wells)	DVC-X  <ul style="list-style-type: none"> Designed for 4" through 12" Schedule 40 monitoring well 	SVP-2  <ul style="list-style-type: none"> Detects hydrocarbon vapor Designed for 2" Schedule 40 monitoring well Materials: chemical resistant plastic, stainless steel 2 wire sensor Also for single wall piping leak detection 	 <p>GEMS LS-800 SERIES</p> <p><i>General purpose, float-type level switch for water, oils, chemicals and corrosive liquids</i></p> <ul style="list-style-type: none"> Stainless steel or brass mountings 1 to 6 actuation levels Lengths to over 11 feet Supports large floats Reliable in contaminated or turbulent media
Double Wall Steel Tanks (Detection of water and hydrocarbons)	DSC-12B  <ul style="list-style-type: none"> Threads: 2" NPT Housing: Epoxy coated aluminum NEMA 4 integrity Base Material: Cast Iron, with 12" of flexible conduit No extra junction box needed 	DSP-2  <ul style="list-style-type: none"> Designed for 2" attached access pipe or end cap opening Contains sensors to detect water (W) or liquid hydrocarbon (H) Materials: chemical resistant plastic, stainless steel Wire length: 16 ft. 3 wire sensor 	
Double Wall Fiberglass Tanks—Dry (Detection of water and hydrocarbons)	DSC-24A  <ul style="list-style-type: none"> Threads: 4" NPT Material: Schedule 80 PVC Raintight fitting, junction box not included 	DWP-25 DFP-25  <ul style="list-style-type: none"> Wire length: 25 ft. 2 wires per probe DWP-25 stainless steel conductivity probes DFP-25 single use hydrocarbon wax 3 wires needed for field wiring 	
Double Wall Steel Tanks (Detection of liquid only)	DSC-12A  <ul style="list-style-type: none"> Threads: 2" NPT, Female Material: Schedule 80 PVC Raintight fitting, junction box not included 1 fitting per tank 	DLP-2 DLP-1  <ul style="list-style-type: none"> Designed for 1" or 2" attached access pipe or end cap opening Detects presence of liquid (L) in annular space Materials: Chemical resistant plastic, stainless steel Wire length: 16 ft. 2 wire sensor Also for double wall piping leak detection 	