Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

MORECTION

P	E	R	N	/1	

Permit Number: 08 128 UED

provided that the person or persons.	rm or a comply with this permit shall comply with	h a
AT 91 ST JOHN ST	- 068 B012001 F PORTLAND	1
has permission toInstall 1 Emergency Generat	n Portla Transh s garage	_
This is to certify thatGREATER PORTLAND TH	NSIT DISTRICT/LaPlante El Sic / 2001	

provided that the person or persons, rm or persons that the person of the Statutes of latine and of the Cartainness of the City of Portland regulating the construction, maintenance and the of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

fication inspect in must be an and with permit on procuble re this ding or in thereof it be done in the JR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

Fire Dept. Cora	Cars -
Health Dept.	
Appeal Board	
Other	

OTHER REQUIRED APPROVALS

Department Name

Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

Cit	y of Portland, Maine	- Building or Use	Permi	t Application	n P	ermit No:	Issue	Datę:		CBL:	
	Congress Street, 04101	•			- 1	08-1155	101	9/06	}	068 B0	12001
Loca	ation of Construction:	Owner Name:		<u> </u>	Own	er Address:	-	t		Phone:	
91	ST JOHN ST	GREATER F	ORTLA	ND TRANSIT	89 9	ST JOHN ST					
Busi	ness Name:	Contractor Nam	e:		Cont	tractor Address:				Phone	
		LaPlante Elec	tric /Mi	chael Laplante	P.O). Box 971 Por	rtland			20776124	146
Less	ee/Buyer's Name	Phone:		1	Perm	nit Type:					Zone:
					Ge	enerator					I-m
Past	Use:	Proposed Use:		_	Pern	mit Fee:	Cost of	Work:	CI	EO District:	<u> </u>
Commercial - "Greater Portland Commercial - Transit" Transit" - Inst		"Greate	r Portland		\$970.00	\$9	5,000.0	00	2		
				FIR	E DEPT:	Appro	ved IN	SPECT	<u>// رناا</u>		
		Generator in	Portland	Transit bus			Denied	116	se Group	TBC-2	Type: 2C
		garage					_ Defice	'		CM-E	×2003
									7	70/-	2007
Prop	oosed Project Description:	•			1		_		-		
Inst	tall 1 Emergency Generato	r in Portland Transit b	ıs garage	•	Sign	ature: (V-e o	y (145	Signal Signal	gnature:	COON	•
					PED	ESTRIAN ACT	IVITIES	DISTRI	CT (P.A	D.)	
					Acti	on: Appro	ved	Approv	ed w/Co	nditions	Denied
					Sign	nature:			D	ate:	
Pern	nit Taken By:	Date Applied For:	1	-		Zoning	Appi	oval			
ldo	obson	09/12/2008				<u> </u>					_
1.	This permit application d	oes not preclude the	Spe	cial Zone or Revie	ws	Zoni	ng Appe	al		Historic Pres	ervation
••	Applicant(s) from meeting Federal Rules.		St	noreland		☐ Varianc	e		1	Not in Distric	ct or Landman
2.	Building permits do not in septic or electrical work.	nclude plumbing,	□w	etland		Miscella	aneous			Does Not Rec	quire Review
3.	Building permits are void	if work is not started	☐ Fl	ood Zone		Condition	onal Use			Requires Rev	iew
	within six (6) months of t										
	False information may inv		☐ Su	ıbdivision		Interpre	tation			Approved	
	permit and stop all work									_	
			Si	te Plan		Approve	ed			Approved w/0	Conditions
		المعادلة الله المعادلة المعادل	Maj [Minor MM		Denied				Denled	
	÷ \$	y 14 ()	10/	witha	nd.	A 0			1		
		7	Date:			Date:			Date		
				S 9118	5 10	/ 8					
						0					
	CITY OF	AND									
	(0:11 0:	: Programa	_								
				CERTIFICATION							
I her	reby certify that I am the ov	wner of record of the n	amed pro	operty, or that the	e pro	posed work is	author	ized by	the ow	ner of recor	d and that
	we been authorized by the ordiction. In addition, if a pe										
	I have the authority to enter										
	permit.	·	1				- F			(-) [
SIGN	NATURE OF APPLICANT			ADDRESS	3		г	ATE		PHO	NF
SIGI	ALL DICANT			ADDRESS	,		L	AIE		PHO	HE

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

City of Portland, Maine -	Building or Use Permi	t		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101	-		4-8716	08-1155	09/12/2008	068 B012001
Location of Construction:	Owner Name:		(Owner Address:	·	Phone:
91 ST JOHN ST	GREATER PORTLA	ND TRA	NSIT	89 ST JOHN ST		
Business Name:	Contractor Name:		(Contractor Address:		Phone
	LaPlante Electric /Mic	chael Lap	lante	P.O. Box 971 Port	land	(207) 761-2446
Lessee/Buyer's Name	Phone:		F	Permit Type:		•
				Generator		
Proposed Use:	<u> </u>		Proposed	l Project Description:		<u> </u>
Commercial - "Greater Portland		су	Install	1 Emergency Gene	erator in Portland Tra	ansit bus garage
Generator in Portland Transit by	us garage]			
Dept: Zoning Stat	us: Approved with Condition	ns Rev	viewer:	Marge Schmucka	al Approval D	ate: 09/15/2008
Note: Emergency devices are	exempt from meeting maxim	um noise	requirer	ments. This is an er	nergency generator	Ok to Issue:
This generator is for tempor and maximum noise require		r use beco	omes pe	rmanent in the futu	ire, separate permits	shall be required
2) This permit is being approve work.	ed on the basis of plans submi	itted. An	y deviat	ions shall require a	ı separate approval b	efore starting that
Dept: Building Stat	us: Approved with Condition	ns Rev	viewer:	Chris Hanson	Approval D	ate: 09/17/2008
Note: Need to now how gener	• •		? # of fe	eetbucket and ala		Ok to Issue:
Permit approved based on the noted on plans.						greed on and as
Separate permits are require Separate plans may need to	d for any electrical, plumbing be submitted for approval as a	,,	-			
3) Installation shall comply with	th 2003 International Mechan	ical Code	and Sta	te of Maine Oil an	d Solid Fuel Board I	Laws and Rules
Dept: Fire State	us: Approved	Rev	viewer:	Capt Greg Cass	Approval Da	ate: 09/15/2008 Ok to Issue: ✓

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

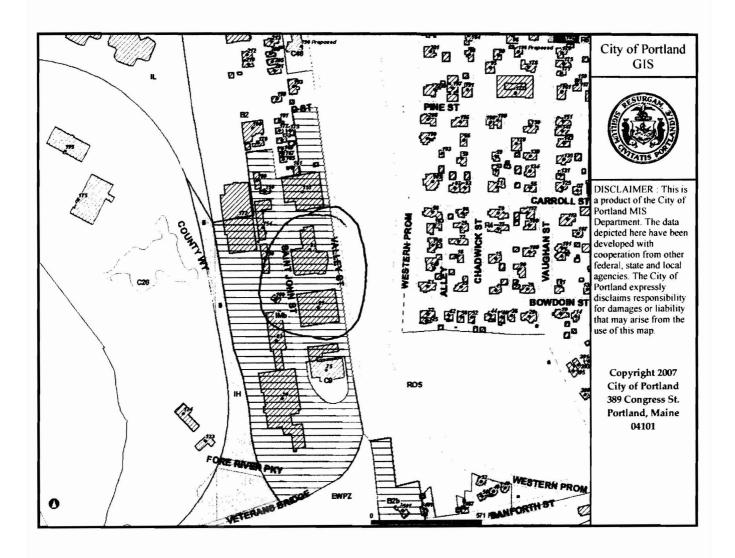
Location/Address of Construction: Great	ter Porti	and TRANsit B	us GARAGE			
Total Square Footage of Proposed Structure/A	rea	Square Footage of Lot				
Tax Assessor's Chart, Block & Lot	Applicant *n	nust be owner, Lessee or Buye	r* Telephone:			
Chart# Block# Lot#	Name					
100 B 12	Address					
	City, State &	7in				
(2)		_ _				
Lessee/DBA (If Applicable)	Owner (if di	fferent from Applicant)	Cost Of			
	Name G ~	eater Portland Thans	it ork. p			
	Address		C of O Fee: \$			
	City, State &	Zip	972			
	- ,,	1	Total Fee: \$			
Current legal use (i.e. single family)	Pater 7	En Hand Trens	1, <u>t</u>			
If vacant, what was the previous use?						
Proposed Specific use:						
Is property part of a subdivision?	If	yes, please name				
Install 1	Project description: Install 1- Emergency generator in Portland Transit Bus Garage					
in Portlan	nd TRAN	1sit BUS GAR	99e			
The following the state of the						
Contractor's name: LAPLANTE	Elect	ric				
Address: P.O. BOX 97		_ _				
City, State & Zip Portland						
Who should we contact when the permit is ready	Micha	el <u>LaPlante</u> Te	lephone: <u>207-761-244</u> 6			
Mailing address: P.O. Box 97	L, Por	Hand, Me 0411	94			
Please submit all of the information o	utlined on	the applicable Checklis	st. Failure to			

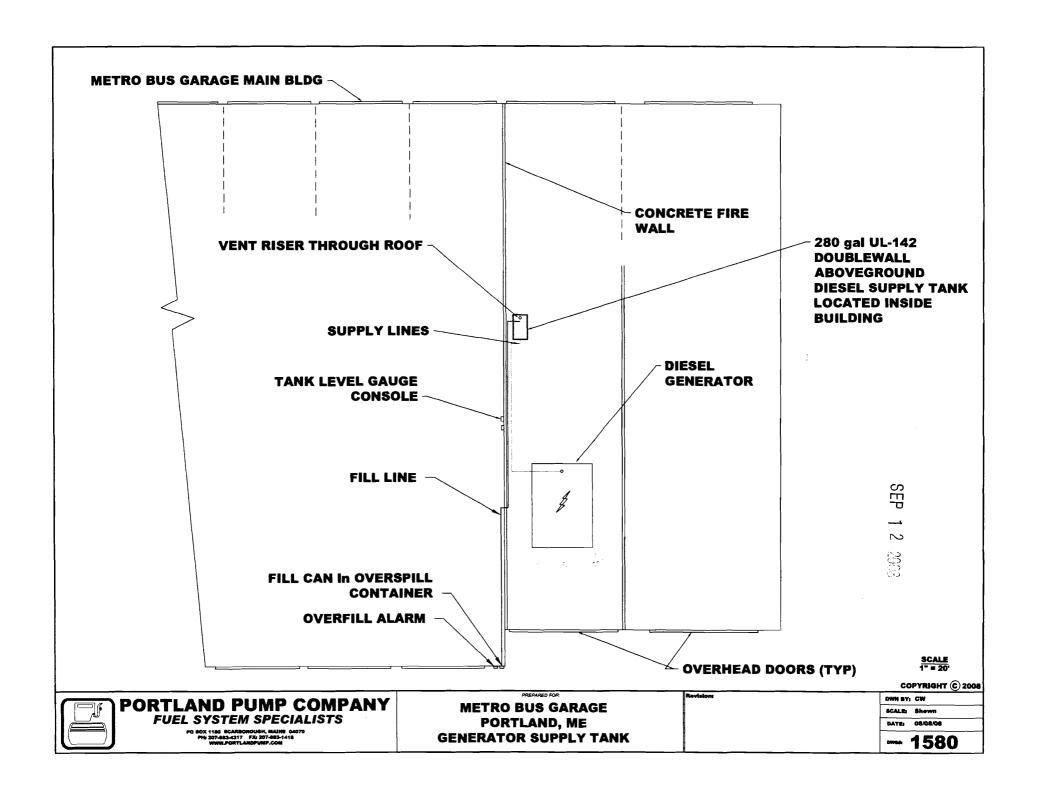
Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

	Signature: Muhael delas	Date: Sept. 12, 2008	
--	-------------------------	----------------------	--





Transmittal Form

Mister Sparky

Division of LaPlante Electric Inc.		Date:	Oct. 6, 2008
P.O.Box 971		Company:	City of Portland
Portland, Maine 04104	,	Attn:	Chris Hanson
207-761-2446	OCT E	From:	Michael LaPlante
		Project name:	Portland Metro Generator
		J	
Regarding: Portland Metro Bus Garage	Generator D	rawings	
We are sending you:	Copies	Date	Description
() As requested	1	Oct. 6, 2008	Data "A" exhaust
(x) Attached	1	Oct. 6, 2008	Data "B" anchoring
() Under separate cover	1	Oct. 6, 2008	Data "C" Tank & Alarn
For your:		***	
() Records			
(x) Use and information Memo:			
() Approval			
() Review and comment			
() Use and distribution			
Via:			
() Overnight mail Remarks:			
() Mail			
(x) Hand delivered	<u> </u>		
() Fax			
Telefax no.:		Copies to:	Chris Hanson
Number of pages (including this page):	13		Michael LaPlante
Signed: Muchael s	Dan		

DATA (A)



Timothy W Angell/Distributors/Cummins 10/01/2008 01:48 PM

To Charles R Pike/Distributors/Cummins@Cummins

ĊĊ

bcc

Subject Re: Exhaust System

Charlie,

I'did the calculations and it looks like 5" pipe will work with this exhaust system, per your supplied drawing.

licalculate total back pressure to be 20 inches water column. The generator specifies 41 inches to be maximum back pressure.

Regards,

Tim Angell Power Systems Engineer Cummins Northeast Inc. 100 Allied Drive Dedham, MA 02026 Ph: 781-751-1248

Fax: 781-329-4428

email: timothy.w.angell@Cummins.com Charles R PIke/Distributors/Cummins 007 -



Charles R Pike/Distributors/Cummins 10/01/2008 10:02 AM

To Timothy W Angell/Distributors/Cummins@Cummins

CC

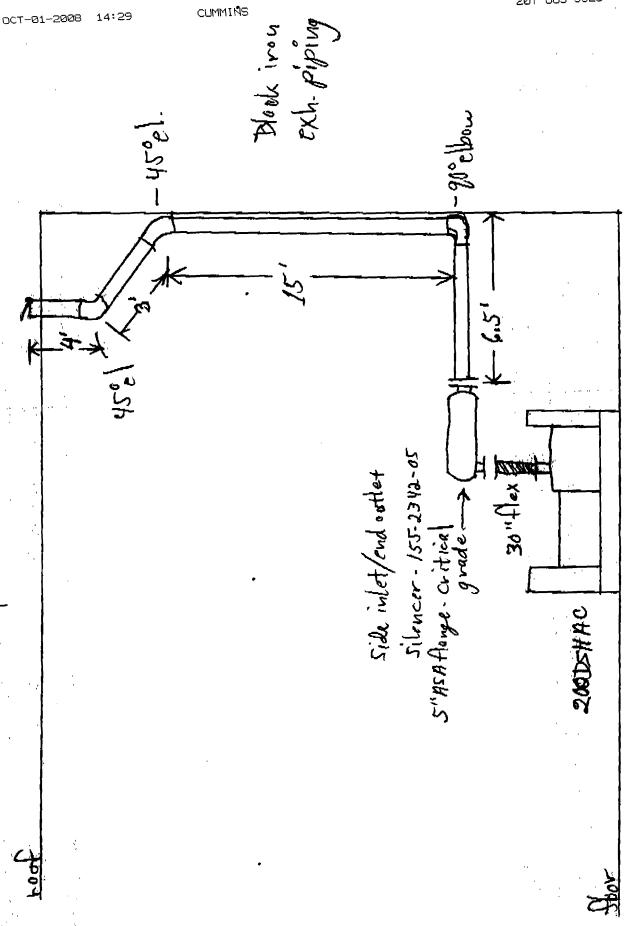
Subject Exhaust System

Tim.

Working on a project with an electrical contactor, standby power, design build type, no engineer. The attached is the layout for the exhaust system. I will be supplying the 5" flex, and the 5" ASA flanged, side inlet/end outlet, silencer. The mechanical contractor needs to know what size black iron pipe he should use for the exhaust run. Your thoughts?

[attachment "Portland Metro.tif" deleted by Timothy W Angell/Distributors/Cummins]

Charlie



DATA B

<u>(</u>

Solland 2

**Control Bolland 3

Retro

3.50

Metro

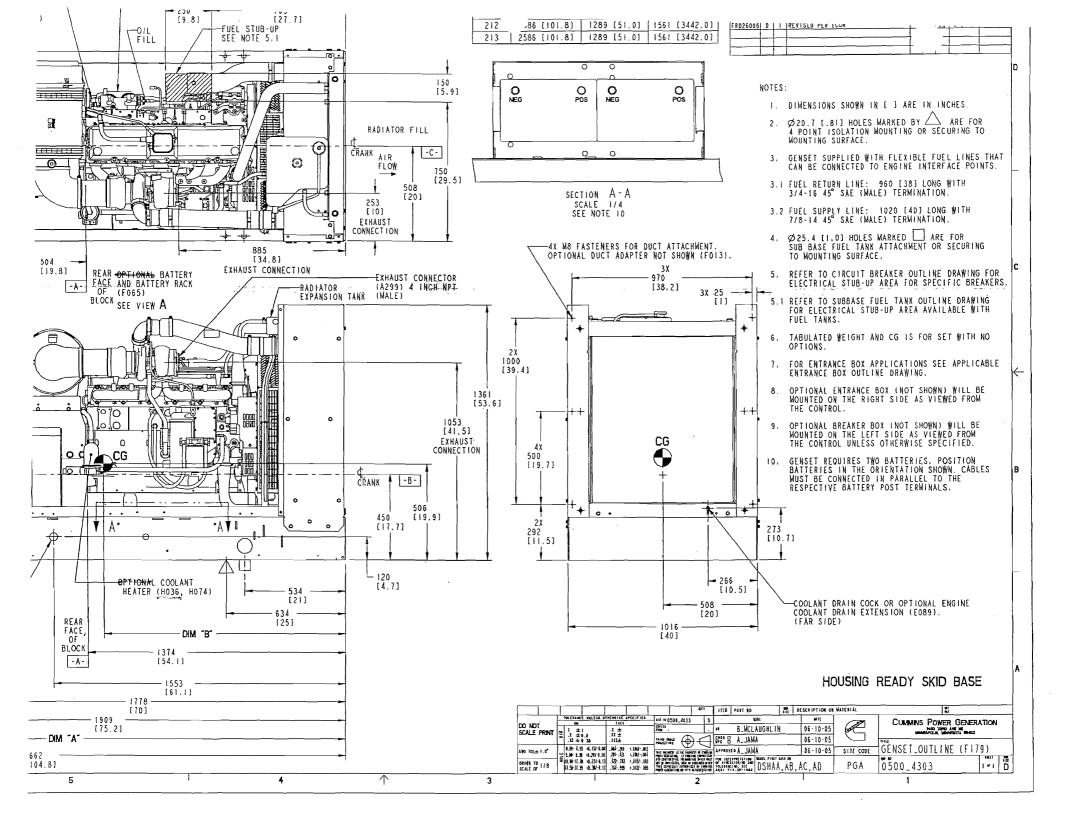
40m 0 0 0 Q toot and callaten

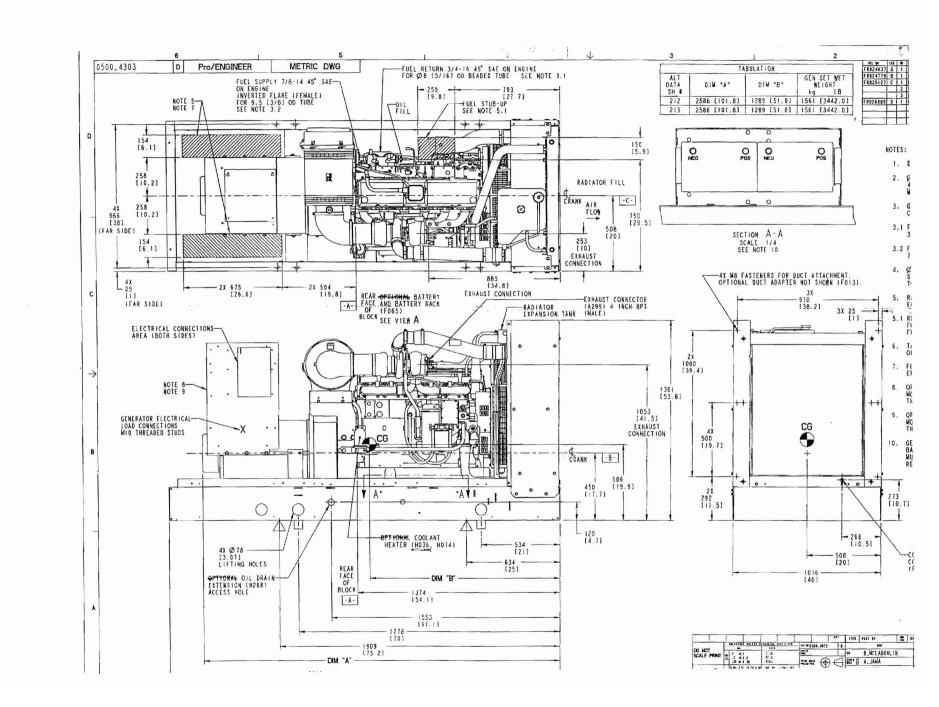
Could be con

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DATA C

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CONTAINMENT SOLUTIONS

5150 Jefferson Chemical Road • Conroe, Texas 77301-6834 Phone (800) 537-4730 • Fax: (936) 756-7766 • Website: www.containmentsolutions.com

Lube Cube® Oil Tanks

... The best solution for storage of new and used lubrication oils. Lube Cube tanks have provided reliable storage of flammable and combustible liquids for more than 10 years.



Lube Cubes Offer:

- lower installed costs than underground tanks,
- · better space utilization than cylindrical aboveground tanks
- lower operating costs than 55 gallon drums
- Rectangular shape allows up to 20% more storage volume in a given space than comparable cylindrical tanks

Lube Cubes are designed for easy and convenient installation:

- Indoors
- In service bays
- Basements
- Outdoors next to buildings

All tanks are UL 142 listed and meet fire code requirements, including NFPA 30, for flammable and combustible liquid storage

Lube Cubes are available:

- As either single or double-wall tanks (Double-wall tanks are UL listed as integral secondary containment and therefore do not require dikes for leak containment.)
- Available nationally, from seven manufacturing facilities
- Standard sizes from 60 to 20,000 gallons

Standard Features:

- UL 142 listed
- · Skid mounted for easy installation
- Shop primed exterior
- NPT fittings with PVC plugs
- Single-wall 5 (plus emergency vent opening)
- Double-wall above fittings (plus emergency vent and inspection opening)
- Lifting lugs

Options:

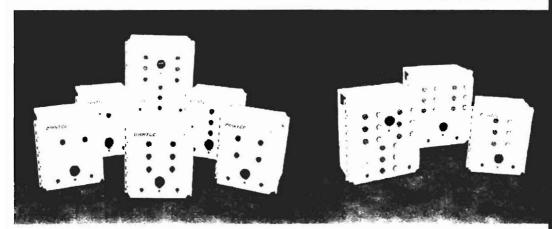
- Industrial epoxy coating (red standard)
- Special colors, coatings and interior linings available upon request
- Seven (7) gallon spill box
- Custom sizes
- Stainless steel construction
- Interior coatings
- Equipment packages
- · Compartments available
- Custom dimensions and equipment packages available upon request

OMNTEC®

Leak Detection Systems

Part Numbers:

LU-series LPD-series LS-ASC LWF L-R-1 L-series PDS PDWF PDWS



Description

OMNTEC's LU and LPD leak-detection and overfill-alarm systems provide continuous, accurate monitoring in a variety of applications. Typical applications are reservoirs, sumps, dry interstitial spaces and dispenser pans. These easy-to-install controllers alarm for in tank levels and leak conditions. The LU controllers are capable of accepting up to 9 sensors for high level and leak detection. The LPD controllers are capable of accepting up to 9 sensors for in tank levels and product distinguishing leak detection. The electro-optic sensors used with these controllers allow users to easily cycle all sensors through a simulated leak, with the press of a single button. This feature climinates the need to remove the sensor from its location.

An alarm condition is visually signaled by a dedicated LED indicator, which remains lit until the alarm condition is corrected. Alarm conditions are audibly annunciated via a 95-decibel piezoelectric pulsing horn. RA-series remote annunciators add high-level remote audio-visual alarms without the need for external AC power.

The LU-SP series controllers accommodate a variety of special applications. In addition, LU-OW systems are available for use with Oil Water Separators.

The NEMA 4X rating of the LU and LPD series controllers indicates a weatherproof, corrosion-resistant product. These controllers are ruggedly constructed to provide reliable and cost-effective performance.

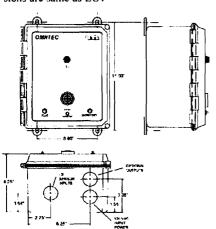
Features

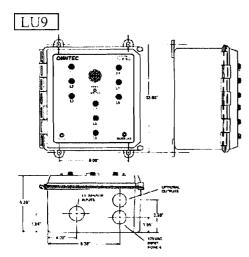
- NEMA 4X weatherproof, corrosion-resistant
- Remote sensor testing
- Acknowledge switch
- Test switch
- System detect light
- Easily installed
- Low-voltage remote annunciator outputs
- Relay outputs (See Specifications)
- LED indicators rated MTBF 11 years
- Specific sensor LED
- Inputs accept either high level, caution level or leak sensors
- Low level alarm (LPD controllers only)
- Distinguishes liquid hydrocarbons from water (LPD controllers only)
- Removable sensor input connectors
- U.L. listed
- Third-party certified
- Cost effective
- Modified controllers for special applications

OMNTEC® (19)

LUI

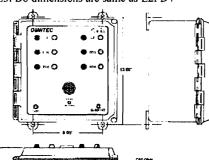
LU2, LU3, LU4, LU6 and L1PD2 dimensions are same as LU1

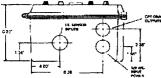




L2PD4

L3PD6 dimensions are same as L2PD4





Note: Current published specifications are subject to change without notification.

Verify specifications with manufacturer.

For additional information consult factory or pricelist.

Cuarifications					
Specifications Enclosure:	NEMA 4X				
	TIONOUIO.				
Power Input:	85-125 VAC, 47-440 Hz 16 watts maximum				
Power to Sensor:	2 VDC @ 13 mA Intrinsically safe fo	r Class I, Group D hazardous locations			
Sensor Cable:	Shielded 22 AWG Maximum length 2	with drain wire (OMNTEC EC-4 or EC-12) ,000 feet			
Audio-visual Controls: Audible alarm: Red lights: Amber Light: Green light: Horn-off button: Test button:	Low level alarm (L Water-leak alarm (Power is on (syste Silences horn (aut	Series) (LWF and LS-ASC) -Series) (PD-Series)			
Response Time:	Immediate				
Relay Outputs:	SPST normally open dry contact 1.25 amp, 120 VAC Switches when an alarm condition occurs (1 per sensor up to LU3)				
Low-voltage Outputs:	12 VDC				
Operating Temperature:	0 to 140° F				
Compatible Sensors*: (see sensor chart)	L-1-Series L-2-Series LS-ASC	For high liquid level For high liquid level and caution level or high liquid level and low liquid level For liquid-leak detection in both under- ground and aboveground applications For double-wall dry interstice of Xerxes 4-foot fiberglass tanks			
	LWF PDS	For double-wall fiberglass dry interstice For product distinguishing liquid-leak detection			
	PDWF PDWS	For double-wall fiberglass dry interstice For double-wall steel dry interstice			

* Additional sensor applications available with SP and OW controllers

RA-1*

Accessories:

	RA-2* RA-3* RA-4* RA-NYS		
* Number denotes i	number of tanks or alarms		
Weight:	LU15 lb.	L1PD2 — 6 lb.	
•	LU26 lb.	L2PD4 — 9 lb.	
	LU36 lb.	L3PD6 9 lb.	
	LU46 lb.		
	LU66 lb.		
	LU99 lb.		
Approvals:	U.L. listed 5L04		***

Third-party certified

For technical information:

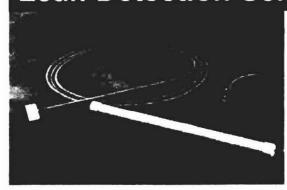


OMNTEC Mfg., Inc. 1993 Pond Road

Ronkonkoma, New York 11779 Phone: 631-981-2001 Fax: 631-981-2007

Email: omntec@omntec.com Web Site: www.omntec.com

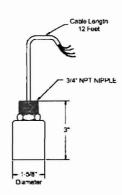
Leak-Detection Sensors



LS-ASC

General Purpose Sensor Sensor for Double-Wall Steel Tanks

The LS-ASC nondistinguishing sensor was designed to accommodate a variety of applications. With its convenient size and ability to detect liquids at any angle, the LS-ASC sensor is the ideal sensor for sumps, dispenser pans, containment areas and annular spaces of double-wall steel tanks. For product distinguishing use part number PDS for general purpose or PDWS for double-wall steel tanks.

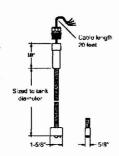


OMNTEC sensors are most known for their ease of installation, reliability, cost-efectiveness and remote testability. Electro-optic technology provides accurate and continuous monitoring. Ruggedly constructed, these solid-state sensors are UL listed and Third-party certified. A distinguishing feature of OMNTEC sensors is that they can be tested remotely with the press of a single button.

LWF

Sensor for Dry Double-Wall Fiberglass Tanks

The LWF nondistinguishing sensor was designed to fit into the annular space of dry double-wall fiberglass tanks. With its slim, compact shape and flexible snakelike shaft, the LWF can easily be installed and removed from grade. (When ordering, the part number will denote tank diameter.) For product distinguishing use part number PDWF.

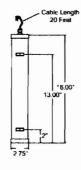


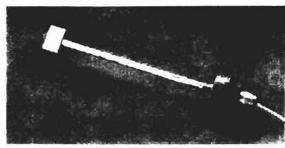


L-R-1

Sensor for Brine-Filled Double-Wall Tanks

The dual-point L-R-1 sensor is designed for double-wall brine-filled fiberglass tanks. This sensor is made of non-metallic corrosion-resistant materials. An alarm is activated to signal changes in reservoir-liquid level beyond acceptable limits (high or low).

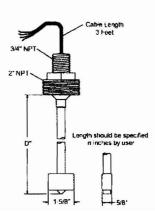




L-Series

Product-Level Sensor

The L-series sensors are designed to provide product-level alarms for high, caution or low product levels. L-series sensors can be remotely tested without removal. This sensor is available with multiple alarm points.



Sensor Specifications

Power Consumption:

2 VDC @ 13mA

Sensor Cable:

Shielded 22 AWG with drain wire

(2000ft maximum) (OMNTEC EC-4 or EC-12)

Principles of Operation:

Normal Condition: Alarm Condition:

Normally closed beam of light Normally closed beam of light opens

(refracts)

Water Condition:

Conductivity electrode

(PDS, PDWS and PDWF only)

Response Time:

Immediate

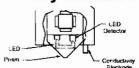
Operating Temperature: -15 to 140° F

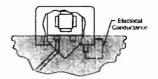
Approvals:

UL-listed, Third Party Approved

Electro-optic Technology with Conductivity for Product Distinguishing

Dry Condition





Wet Condition

SENSOR	APPLICATION	CONTROLLER	PRODUCT DISTINGUISHING
LS-ASC	leak sensor *	LU	NO
LWF	doubewall dry fiberglass	LU	NO
L-1-L,S,D	high level	LU or LPD	NO
PDWF	doublewall dry fiberglass	LPD	YES
PDS	leak sensor *	LPD	YES
L-R-1	reservoir	LPD	NO

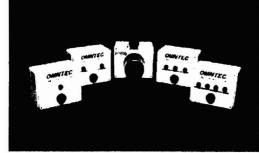
Enclosure:

Approvals:

Power Input:

Audio-visual Controls:

Remote Annunciators



Features

- Easily installed
- No external power required
- Tests remotely
- NEMA 4X weatherproof, corrosionresistant
- LED indicators rated MTBF 11 years
- High-decibel audible alarm
- U.L. listed
- Cost effective

Audible alarm (RA-Series):					
Audible alarm (RA-NYS):					
Red lights:		Li			
Horn-off button on con	troller:	Si			
Response Time:	Immediate				
Operating Temperature:	0 to 140° F				
Compatible Controllers:					
	LPD-Series				
	LU-Series				
Wire:	22 AWG minimum				
Weight:	1 lb.	_			

NEMA 4X

U.L. listed 5L04

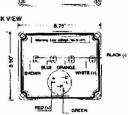
95 dB pulsing horn
110 dB pulsing horn
Liquid-high level alarm
Silences horn

Immediate

0 to 140° F

LPD-Series

(W) 6.75" x (H) 5.50" x (D) 3.75"





OMNTEC Mfg., Inc. 1993 Pond Road

Ronkonkoma, New York 11779
Phone: 631-981-2001
Fax: 631-981-2007
Email: omntec@omntec.com

Web Site: www.omntec.com