

LDS LEAK DETECTION SYSTEM



LDS

TRANSPORT LEAK DETECTION SYSTEMS



Designed specifically for propane, anhydrous ammonia and butane transports. DCE certified to meet or exceed all US DOT CFR49 and Transport Canada B620-14 regulations. These systems continually monitor the off-loading process, looking for a rapid change in discharge pressure. These systems detect a separated hose or failed connection and close the tank internal valve within 1/2 second.

Auxiliary control panel available for LDS100 and LDS200 systems to allow driver's side unloading control. Multiple configuration options available for Canadian operations requiring "off truck remote" functionality, optional handheld remote with Query and Emergency Stop.

● LDS60

This system has been designed & tested by Design Certified Engineers to meet the compliance requirements of US DOT 49CFR. The low powered control unit continually monitors piping and hose assemblies during the off-loading process. A failed pipe or hose separation will cause the tanks internal valve to close instantly and sound an audible alarm. A simple "reset" button returns the unit to the monitoring state.

● LDS60-RF

Configured specifically to comply with Transport Canada B620-14 regulation. This system combines the functionality of the LDS60 with the remote shutdown capabilities of BASE Engineering's trusted ASK series of remote controls. Please contact factory for more details.

● LDS100

This low powered unit continually monitors the off-loading process for "rate of change" parameters, signifying broken or damaged hoses, fittings, and piping. A leak instantly detected and stopped by the closure of the tank internal valve(s). The truck's engine can also be stopped and PTO disengaged if desired. This system automatically activates at the end of each load. This ensures that system is fully operational and helps reduce the possibility of a damaged cargo pump due to product run out. This unit also "fails-safe" and closes the internal valve with a loss of power or the release of the trailer parking brakes. Designed to meet requirements of US DOT CFR49.

● LDS200-AQRF

Designed to comply with DOT requirements for transport with both 'metered' and 'bulk discharge' capability. Combines all of the features described above for the LDS100 but includes an ASK handheld with 'Query' and 'Emergency Stop' buttons. For full remote and function description see page 20. Additionally, the remote 'E-Stop' button gives the operator the ability to activate the passive shutdown at any time during the off-loading process.

LDS60 TECHNICAL SPECIFICATIONS

SYSTEM TYPE	Low powered micro-computer controlled leak detection and shut down
INSTALLATION	"Plug & Play" components (2 hrs)
POWER/GROUND CONNECTIONS	12 volts DC
SYSTEM ACTIVATION	Air supply to internal valve
LEAK DETECTION METHOD	Intrinsically safe pressure transducer
PROBE LOCATION	1/4" NPT coupling in pump discharge pipe
DETECTION CAPABILITY	Partial and complete hose/pipe
RESPONSE TIME	One half (.5) seconds
EMERGENCY STOP METHOD	Closes any tank or all tank internal valves (cable or air)
CALIBRATION	None required
CALIBRATION SELF TEST	Included
OPERATOR SET UP	None required
SELF TEST FEATURE	Included
CONSTRUCTION	Non-sparking, waterproof
WEIGHT	10 lbs

LDS100 TECHNICAL SPECIFICATIONS

SYSTEM TYPE	Low powered micro-computer controlled leak detection and shut down
INSTALLATION	"Plug & Play" components (2 hrs)
POWER/GROUND CONNECTIONS	12 volts DC
SYSTEM ACTIVATION	Air switch brake interlock
LEAK DETECTION METHOD	Intrinsically safe pressure transducer
PROBE LOCATION	1/4" NPT coupling in pump discharge pipe
DETECTION CAPABILITY	Partial and complete hose/pipe
RESPONSE TIME	One half (.5) seconds
EMERGENCY STOP METHOD	Closes any tank or all tank internal valves (cable or air)
CALIBRATION	None required
CALIBRATION SELF TEST	Included
OPERATOR SET UP	None required
SELF TEST FEATURE	Included
MANUAL STOP FEATURE	Included
POWER OFF	Automatic with loss of air
CONSTRUCTION	Non-sparking, fiberglass weather-proof
WEIGHT	10.5 lbs



GET IN TOUCH

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BASE Engineering offers a four year, no hassle, replacement warranty on every product we manufacture, and one year warranty on products that are not manufactured at BASE Engineering. Our Technical Support group is available Monday to Friday from 7 am through 5 pm EST to assist with warranty, service, or installation questions.

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