

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 CSA B620 regulations. These systems continually monitor the off-loading process, looking for a rapid change in discharge pressure. These systems detect a separated hose, failed connection or slow leak 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 are available for Canadian applications requiring "off truck remote shutdown" functionality.



OPTIONS

● LDS60

This system has been designed & tested by Design Certified Engineers to meet the compliance requirements of US 49CFR and Canadian CSA B620 regulations. 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 tank's internal valve to close instantly and sound an audible back-up alarm. A simple "reset" button returns the unit to the monitoring state.

● LDS60-RF

Configured specifically to comply with Canadian CSA B620, this system combines the functionality of the LDS 60 with the remote shutdown capabilities of BASE Engineering's trusted ASK series of remote controls. Please contact factory for more details.

● LDS100

The low powered unit continually monitors the off-loading process for "rate of change" parameters, signifying broken or damaged hoses, fittings, and piping. A leak is 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. The system also has the capability of sensing low product volume in the tank and will begin an overrideable shutdown sequence ultimately preventing damage to the 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.

● LDS200

Designed to comply with DOT requirements for transports with both 'metered' and 'bulk discharge' capability. Combines all of the features described above for the LDS100 but includes a handheld with remote control 'Query' and 'Emergency Stop' buttons. An audible alarm sounds every 4:30 seconds, giving the operator 30 seconds to respond by pushing the 'Query' button. Failure to push the 'Query' button results in automatic activation of the remote shutdown system. Pushing the 'Query' button refills the timer to allow 5 more minutes of off-loading. Additionally, the remote 'E-Stop' button gives the operator the ability to activate the remote shutdown at any time during the off-loading process.



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LDS60 TECHNICAL SPECIFICATIONS

SYSTEM TYPE	Low powered micro-computer controlled leak detection and shut down
INSTALLATION	"Plug & Play" components
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 all tank internal valves (cable or air), stops all auxiliary power
CALIBRATION	None required
CALIBRATION SELF TEST	Included
OPERATOR SET UP	None required
SELF TEST FEATURE	Included
CONSTRUCTION	Fiberglass, weatherproof
WEIGHT	10 lbs

LDS100 TECHNICAL SPECIFICATIONS

SYSTEM TYPE	Low powered micro-computer controlled leak detection and shut down
INSTALLATION	"Plug & Play" components
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 all tank internal valves (cable or air), stops all auxiliary power
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	Fiberglass, weatherproof
WEIGHT	10.5 lbs



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