


Gas Release Panel

(Delta)

MODEL: DL-2/4/6/8 R

ASES – Delta is a microprocessor based Gas Release Panel. The panel performs dual action – detection of fire incident & controlling of Gas Release. The panel is having two separate fire detection zone & a single Gas discharge module. The detection zone works as a cross zone technology to activate the discharge module. The panel is having all the protection from false alarm. The panel is having timer with 7-segments display for discharge delay. With this we can set discharge delay of 0-99 sec.

Features:

- Fully confirms IS 2189
 - Operates on 230 V AC, 50 Hz AC supply
 - Battery backup with built in charger
 - System On, AC fail, silence visual indications.
 - Battery Low & Common fire/fault indications
 - Two mode selection facility (Auto/Manual).
 - Manual Gas Release without timer (optional)
 - Gas Inhibition and Instant Release Facility
 - Cross zoning facility.
 - Actuator Pressure Low Sensing
 - Zone wise fire / fault status in unambiguous colored LED indications.
 - Feather touch switches for auto/manual mode selection, manual release, manual abort, Disable operations.
 - UP/DOWN switch for delay time setting
 - External s/w for reset, Silence, Lamp test.
 - Sov line monitoring facility and line status through LED display
 - LED indication for valve operations and gas discharged.
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- 7-segment display for discharged delay time setting.
 - Key lock for enabling and disabling of control switches
 - Relay O/P for actuators.
 - Common fire, fault and pre-discharge potential free contacts.
 - Enough inside space for battery
 - Attachable with all types of fire detectors.
 - Rugged CRCA sheet with powder coated finish

Operating Principle:

ASES–Delta operates in two different modes

Automatic Operation: 10–12 NOS of conventional detector can be connected on both the zone lines. When both the zone lines get activated it turns on the timer after delay time completion the panel sends 24VDC supply to activate the Actuator for gas release.

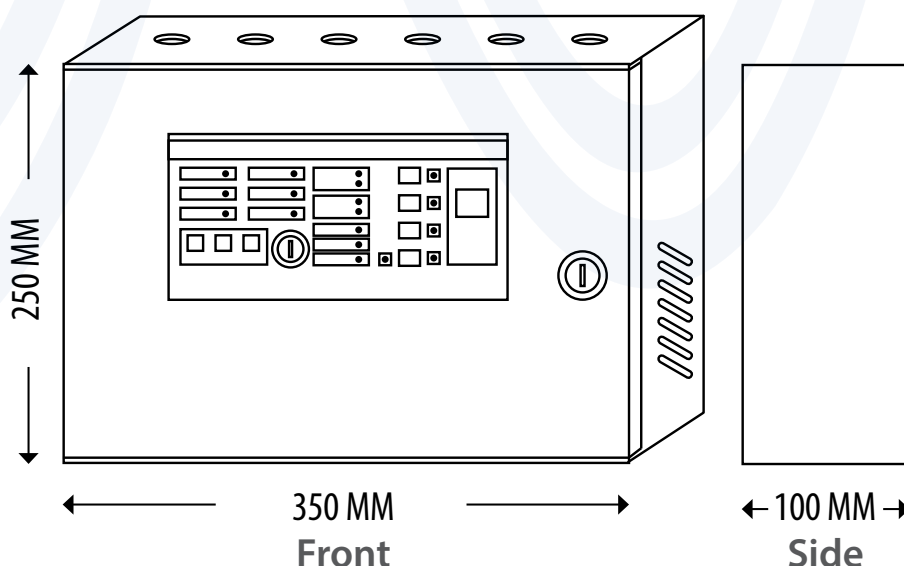
Manual operation: Put the panel on Manual Mode Press the release switch or Break the manual release unit. This action will turn on the timer, after delay time completion the panel will send 24VDC to activate the Actuator to release the Gas.

Technical Data:

Panel Operating Condition Operating Voltage

AC Power	220v AC, 50Hz \pm 10%
Standby	24v DC
Operating Temperature	0°C to 40°C
Operating Humidity	95% (non-condensing)
Zone Operating Condition	
Normal Zone Voltage	23v DC
Open Threshold Current	4.4 mA
Short Threshold Current	35 mA
Fire Threshold Current	15 – 35 mA
Hooter Output	750mA @24v DC (Normal)
NB: Hooter output current can be increased as per customer requirement.	
Remote Outputs	
Fire Contact1 (C,NO,NC)	240v AC@2A /24v DC@ 5A

Mechanical Diagram:



CONTROL AND INDICATIONS

LED Indications:

- System on
- AC Fail
- Battery Low
- Common Fire
- Common Fault
- SILENCE
- Zone 1 Fire
- Zone 1 Fault
- Zone 2 Fire
- Zone 2 Fault
- SOV Operated
- Gas Discharged
- SOL line Open
- Disable
- Manual Release
- Auto Mode
- Manual Mode

Control Switch:

- Reset
- Lamp Test
- Silence
- Auto Manual
- Disable
- Abort
- Manual Release
- Up
- Down

Ordering Information

DL-2 R	2 fire zone 1 discharge module
DL-4R	4 Fire zone 2 discharge module
DL-6R	6 Fire zone 3 Discharge Module
DL-8R	fire zone 4 Discharge Module

Packing Information

Part Number	Pack Quantity	Dimensions (WxHxD millimetres)	Weight
DL-2R	Individual(1 units)	360 x 260 x 120	5 Kg
DL-4R	Individual(1 units)	460 x 210 x 445	10 Kg
DL-6R	Individual(1 units)	710 x 260 x 460	21 Kg
DL-8R	Individual(1 units)	710 x 260 x 460	22 Kg