

# Patol Limited

Rectory Road  
Padworth Common  
Berkshire  
RG7 4JD

Tel: (0118) 9 701701

Fax: (0118) 9 701700 / 9 701300

E-mail: [info@patol.co.uk](mailto:info@patol.co.uk)

## APPLICATION NOTE - LINEAR HEAT DETECTION CABLE

### Petrochemical Products Storage Tanks

The Linear Heat Detection Cable System can be supplied as an Intrinsically Safe version to monitor fixed or floating top storage tanks.

With fixed top tanks the Linear Heat Detection Cable can be used to monitor vents, gauging points, and manholes in one continuous line.

On floating top tanks the top seal can be monitored and the Linear Heat Detection Cable is easily arranged to cover movement of the floating roof.

For each "zone" a length of Linear Heat Detection Cable is connected to a Zone Monitor, the latter being housed in a Safe Area.

The Intrinsically Safe circuitry within the Zone Monitor imposes a limitation on cable length because of the capacitance of the Linear Heat Detection Cable. The maximum permissible length varies with the Hazardous Gas Group.

Where there are relatively long distances between the Detection Zone and the Zone Monitor low capacitance Extension Cable is available. (Further details available on request.)

The Zone Monitor provides repeat signals to a control area via a suitable interposing cable.

At an area control panel the status of a number of zones may be displayed using either an annunciator matrix or graphic display.

### Applicable Data Sheets

Linear Heat Detection Cable  
Patol Zone Control Module LDM-519 / SEN  
Patol Zone Control Module LDM-519 / ACT  
Patol Zone Control Module LDM-519 / LP (line powered)  
Patol LDM- 519 Eurocard Module  
Linear Heat Detection Cable Extension Cable  
Fixings (various)

### Other Relevant Documentation

Intrinsically Safe Systems – Limitations on Cable Length.  
Barrier Types