



## Applications: Underground Car Parks

In the summer of 2011 South East Asia suffered unusually high rain fall. In Singapore and Bangkok it led to significant flooding. The cost of these floods in Singapore alone was estimated to be \$12.5m according to the General Insurance Association. Out of this total an eye watering \$3.8m was allocated for motor vehicle claims.



The reason for this high bill was that Singapore, like many other modern cities, has the majority of their car parks underneath their associated buildings. Underground car parks, being subterranean, are much more susceptible to flooding. It is therefore imperative that all precautions are taken to avoid the costly damage seen in Singapore and other recent flooding events.

A minimal investment in Signaline WD Water Detection Cable provides superb coverage for such risk areas. A single Signaline WDM-KM Control Module monitoring the Signaline WD Water Detection Cable protecting the perimeter of the car park will warn the building owners of an impending flood. Car drivers can be alerted and steps can be taken to avoid costly damage.

A more complex solution can also be designed such that each car parking bay has its own Signaline WDM-KM Control Module and 3.75m of Signaline WD Water Detection Cable. The Signaline WDM-KM Control Module reports to a BMS or even an IP port programmed to send text messages to the car owners warning of the rising flood water.

Although a Signaline WD Water Detection Cable System is a rugged system and will cope in the difficult conditions of underground car parks precautions should be taken to give the cable some protection. For example if it is used for individual bays then the cable should be laid in a porous steel tube to make sure the cable is not damaged when walked on or driven over by cars.

Up to 1000m of Signaline WD Cable can be monitored by a single Signaline WDM-KM Control Module making Signaline WD Water Detection Cable a highly cost efficient form of water detection.



For further information about car park installation please contact our sales offices.

Also in the Signaline family is Signaline Heat Sensing Cable, which is a heat sensing cable that offers an ideal solution for detecting the early stages of fire in underground car parks. Please refer to [www.signaline.com/heat](http://www.signaline.com/heat) for further details or contact our sales office.

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