

NVENT RAYCHEM TRACETEK WATER LEAK DETECTION SAFEGUARDS FINANCIAL CENTRE IN SHANGHAI

PROJECT DETAILS

Location:	Shanghai, China
Completion Date:	July 2008
Contract Scope:	Design system, supply components, installation by local partner
Applications:	nVent RAYCHEM TraceTek Water Leak Detection System
Technology:	Water Leak Detection sensing cables and monitoring solution



KEY CHALLENGES

One of the landmark building in Shanghai, China, has 101 floors above ground and towers to a height of 492 metres (1614 ft.). It is a 4 million sq ft. mixed use facility comprising prestige office space for world banks and financial institutions, a 180 room 5-star hotel, retail shopping mall, international conference facilities and observation decks.

The landmark development has integrated building management systems and includes the provision of water leak detection within the building.



Water penetration poses a major threat to data centers, computer rooms, etc.



TraceTek detection system gives early alert of water leaks

SOLUTION

nVent was able to satisfy the client that its modular TraceTek sensor cable systems offered high-integrity leak detection and precise location, provided by distributed rather than single point sensing. TraceTek is simple to install and is supported by a digital communication network for integration into building management systems.

TraceTek water leak detection systems are being installed throughout the Shanghai World Financial Center - one of the world's tallest buildings. To prevent disruption to business continuity, water sensing cables are being located in all sensitive environments, like the building's data centers, computer rooms etc., and in close proximity to water services.

PRODUCTS

Some 4 km of TT1000 water sensing cable and 80 electronic control modules (TTSIM & TTDM 128) are being installed to safeguard data centers, computer rooms, air conditioning plant, kitchens and a swimming pool. With its global presence, nVent was recognised as a secure partner for this major project and has been contributing 'local' technical support on leak detection right from the design phase.

BENEFITS

- The TraceTek system allows building management staff to continuously monitor water in sensitive areas. A leak can be quickly detected and remedied before it's too late.
- A digital communications & power backbone that gives the ability to independently track many leaks at once, with local, networked or remote alarms and diagnostics.
- Configuration options that automatically shut off pumps or valves where appropriate.
- Expandable system that scales well to new applications in the same building when required.

With many thousands of installed systems worldwide - from London's iconic new Swiss Re building to Shanghai's World Financial Centre and Osaka's Twin Tower – TraceTek polymeric sensing cables and multifunction, multi protocol digital alarm system are the dominant solution to water leaks in buildings.

Our extensive global distributor network provides local contact and installation for these systems into:

- Computer Rooms, Server Equipment and Communications Facilities
- Intelligent Buildings and Commercial Buildings
- Libraries and Archive Storage Facilities
- Museums, Heritage Sites and Aquariums

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