

為飛機庫更換消防系統 成效顯著

Replacement of Hangar's Fire Services System Achieves Remarkable Results

機電署致力提升工程技術服務，匯聚不同專才組成各個智囊團，協助同事積極回應客戶的需要。我們熟悉客戶的場地和設施，因此亦能提供可行的工程解決方案。以政府飛行服務隊總部飛機庫的消防系統為例，為了減少系統誤鳴的頻率，我們秉持以客為本的原則提出解決方案，並於兩個多月內完成安裝新的消防系統。該套系統安裝至今約半年時間，並沒有出現誤鳴，成效顯著，贏得客戶信賴。

上述飛機庫處於通風的開放式環境，消防系統原來使用普通的點式熱力感應器容易受天氣影響，曾於去年發生多次誤鳴事故，而在春季天氣潮濕時，誤鳴情況尤為頻密，對政府飛行服務隊的運作造成影響。我們的機場及車輛工程部與消防裝置智囊團一同研究，最後提出改用線式熱力感應器的專業建議，順利協助客戶圓滿解決問題。

線式熱力感應器安裝於高達15米的飛機庫頂部，並連接飛機庫牆身的控制箱，以收發訊號。感應器表層的防水塑膠物料可抵禦潮濕天氣，而裏面的導體則作為傳感元件，能探測沿線任何位置的熱力。當溫度達到攝氏68度或以上，感應器的絕緣體便會熔化，使連接的控制箱立即傳送火警警報訊息到中央消防控制板，從而發出火警警報。安裝新的消防系統後，誤鳴事故已顯著減少，足見我們能為客戶提供更優質的服務。

客戶如欲了解更多有關使用線式熱力感應器的消防系統的資料，歡迎致電 2183 6558與高級工程師程廣輝先生聯絡。



我們為政府飛行服務隊總部飛機庫安裝的線式熱力感應器可靠耐用，特別適合通風的開放式環境。
The linear heat detectors installed in the hangar of the GFS Headquarters are reliable and durable, especially fit for open and ventilated environment.

The EMSD is committed to enhancing the engineering and technical services provided. By forming various think tanks comprising experts from different disciplines, we are able to help our colleagues respond proactively to clients' needs. As we are familiar with clients' venues and facilities, we can also offer feasible engineering solutions. Taking the example of reducing the frequency of unwanted fire alarms in the hangar of the Government Flying Service (GFS) Headquarters, we adhered to the customer-oriented principle in providing solutions and completed the installation works of a new fire services system in an expedited period of two months. Now it has been about half a year since its putting into service, and there has been no more unwanted fire alarms. This significant achievement has earned the client's trust.

Located in an open environment with natural ventilation, the hangar used the conventional point-type heat detectors originally which are easily affected by weather. As a result, unwanted fire alarms occurred several times last year and took place frequently during humid spring season, affecting the operation of GFS. Our Airport and Vehicle Engineering Division worked closely with our Think Tank on Fire Services Installations to come up with a professional recommendation that linear heat detectors should be used, and thus helped the client solve the problem successfully.

The linear heat detectors are installed 15-metre high up on the ceiling of the hangar and connected to the controller mounted on the wall of the hangar so as to send and receive signals. The entire set of linear heat detectors are encased with waterproof polymer which resists humid weather. They also use conductors as sensing elements which can detect the heat at any point along their length. When the temperature reaches 68°C or above, the insulator of a linear heat detector will melt. Its connecting controller will immediately transmit a fire alarm message to the main fire control panel to set off the fire alarm. After installation of the new fire services system, the number of unwanted fire alarms has decreased significantly, demonstrating that we are able to provide better quality services to the client.

For more information on the fire services system using linear heat detectors, please contact Mr. Ching Kwong-fai, Senior Engineer, at 2183 6558.



政府飛行服務隊總機師余力臻先生(左四)與機電署總工程師/機場及車輛工程高志聰先生(中)視察新的消防系統，該系統的成效獲客戶高度讚揚。
Mr. Yee Lek-chun (4th left), Chief Aircraft Engineer of GFS, and Mr. Ko Chi-chung (centre), Chief Engineer/Airport and Vehicle Engineering of EMSD, inspect the new fire services system. The client greatly appreciates the performance of the new system.