

BITUMEN LEVEL MEASUREMENT SAFETY SYSTEMS



Stand No
P103

Benefits.

The Hycontrol Bitumen level monitoring system is designed to prevent the overspill of hot bitumen during the road tanker delivery process on site.

This system will significantly improve on-site safety and reduce product wastage and extensive damage to tanks in the event of an overspill.

All Hycontrol systems meet the requirements of the Refined Bitumen Associated recommendations.



Description.

The Hycontrol safety control equipment incorporates a special bitumen TDR guided radar continuous tank level measuring system and an independent high level alarm probe. Measuring levels in bitumen tanks is particularly difficult: the hot vapour rapidly coats anything in the tank with bitumen, rendering some level systems inaccurate or ineffective, sometimes in a matter of days. The system uses data from the TDR sensor to provide an early warning high level alarm (HLA) set at 90% of the available tank contents, whilst an independent ultimate high level alarm is set 2.5% higher, providing a 'belt and braces' warning should anything fail or affect the reading from the TDR.

The control panel clearly displays the current bitumen level in the tank, the total available space left in the tank (ullage) and the current bitumen temperature, taking into account the RBA recommendations that there must always be 10% of the available tank level kept empty. A simple unambiguous traffic light system, which uses multi LED technology for bulb redundancy and increased brightness, clearly shows the tanker drivers the status of each tank. If for any untoward reasons the early high level alarm is reached during the filling process, an amber beacon at the control panel and the amber traffic light flash together with an audible warning, giving sufficient time to shut down the fill and safely blow the tanker lines clear. However, even if this fails, the independent high level probe alarm will still provide ample warning to prevent overfilling.