

technical bulletin

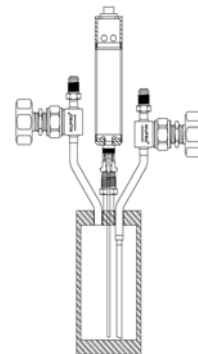
High-High Alarm Fixed Point EpiSensor

The Fixed Point EpiSensor (FPES) can be used with an EpiFill system as a secondary alarm system. It is to aid in fail safe detection for the filling of tool bubblers. It prevents the bubbler from being overfilled by sending a signal to the tool.

The high-high alarm unit is connected to the tool system via a cable for its power supply. The external voltage supply is 12V to 28V DC.

The unit can be interfaced with the process tool to initiate shutdown sequencing if the fill level of the bubbler reached 110%. The overflow alarm would activate and the red LED would flash rapidly.

The FPES conforms to semi S2 standard. Calibration of the unit is carried out at SAFC Hitech prior to shipment with the original tool ampoule.



High-high alarm Fixed Point EpiSensors are for use with an EpiFill system to prevent overflow. The high-high alarm unit is used to detect overflow levels of chemical when the EpiFill system is in use

The cable comes with bare ends so that it can be hard wired into the EpiFill system

There are three sequences of LED's

To detect the unit is working the green LED will be flashing

To detect a fill level of 105% the red and green LED will be flashing

If the 110% fill level is reached the red LED will flash – theoretically this should never happen as the EpiFill system will have stopped the fill at the required level