

QUESTIONS AND ANSWERS

# PRODUCTS DEVELOPED FOR ATEX CERTIFICATION



## ATEX CERTIFICATION

Here at Display Technology we can provide our customers with a product or system ready for ATEX certification. Read our questions & answers fact sheet to find out more

### WHAT DOES ATEX STAND FOR?

ATEX is an acronym for Atmospheres Explosible.

### WHAT IS ATEX?

ATEX is an EU directive 94/9/EC from the European Committee for Standardisations designed to ensure the safety of products and equipment being intended for use in potentially explosive atmosphere. The UK implementation is covered by the Dangerous Substances & Explosive Atmosphere Regulations (DSEAR)

### WHAT IS THE DEFINITION OF AN EXPLOSIVE ATMOSPHERE?

In DSEAR an explosive atmosphere is defined as a mixture of dangerous substances with air, under atmospheric conditions, in the form of gases, vapours, mist or dust in which, after ignition has occurred, combustion spreads to the entire unburned mixture. Atmospheric conditions are commonly referred to as ambient temperatures and pressures. That is to say temperatures of  $-20^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  and pressures of 0.8 to 1.1 bar.

Did you know that nearly half of the explosions in the UK occur in the food and drinks industry. Both direct suppliers of production equipment to this industry and indirect suppliers, such as manufacturers of environmental test equipment, must all consider the required ATEX certification.

ATEX is as expected, particularly relevant to the oil and gas industry. However, other industries that it must also be considered are marine, emergency services, medical, communication and transportation.

### ARE DISPLAY TECHNOLOGIES DISPLAYS AND DISPLAY ASSEMBLIES ATEX CERTIFIED?

Please note: the individual display components and assemblies are not ATEX certified, only the end product or system in which they are integrated can be certified. However, our experience and in house Vacubond Free Air Exclusion Bonding process enables us to provide displays components and assemblies, which when correctly integrated, will provide our customers with a product or system ready for ATEX certification.

### WHAT ARE THE DISPLAY SIZE LIMITATIONS FOR VACUBOND FREE AIR EXCLUSION BONDING?

There is no limitation on the minimum size and the maximum size we can bond is 32".

### WHAT ARE EXAMPLES OF THE TYPICAL SIZE YOU CAN VACUBOND FREE AIR EXCLUSION BOND?

We currently have 8.4", 19", 21.5" and 24" size TFT's in production and many more in development. We can also apply the same process to full custom size displays.

### IS IT POSSIBLE TO INTEGRATE A TOUCHSCREEN WITHOUT COMPROMISING THE ATEX CERTIFICATION?

Yes we can use the same Vacubond process to optically bond a CTP or protective cover glass.

### HOW LONG DO I HAVE TO WAIT FOR A PROTOTYPE TO BE MADE UP?

The standard lead time (provided we have the display on stock) is approximately 4 weeks.