

Flo-Tel™+

Non-Invasive ATEX approved burst detection

Flo-Tel™+ is an **ATEX approved**, non-invasive, magnetic burst-detection system, providing an excellent solution for identifying when a rupture disc functions within arduous operating conditions. Operating on simple reed switch and magnet technology, Flo-Tel™+ is designed to offer a practical and reusable solution for rupture disc detection needs.



Flo-Tel™+ offers significant cost savings

Unlike traditional membrane-type detection, Flo-Tel™+ is non-invasive to the process, thereby eliminating false alarms associated with other detection systems. Flo-Tel™+ offers significant cost savings to customers as after rupturing the disc is the only element to be replaced, this eliminates expensive re-wiring costs and maintenance planning known with these other types of burst detectors.

System operation and technology

The sensor is fitted into a holder with a magnet on the rupture disc. When the rupture disc bursts; the rupture disc with its magnet arc away from the sensor, giving an open circuit signal. After rupturing, the disc is the only element that needs replacing. The Flo-Tel sensor is not in contact with the process medium, therefore, there are no potential leak paths. Flo-Tel™+ comprises a non-invasive design, thus not affected by downstream pressure fluctuations or corrosion.

Flo-Tel™+ offering a wide range of temperature use

Flo-Tel™+ must be connected to an intrinsically safe supply that is compatible with the following values:

- $U_i = 50v$
- $I_i = 250Ma$
- Maximum Current = 0.1A
- Maximum Voltage = 24V
- Maximum Power = 1W
- Maximum process temperature 250°C
- Minimum process temperature -55°C

The detection system is ATEX approved, thus able to operate in all levels of potential explosive atmospheres in process temperatures ranging from -55°C up to 250°C available with a 2m, 5m or 10m cable making it compatible with various site designs.

Leading the industry in advanced quality performance

Elfab pride themselves in offering the highest level of **quality** and are accredited to a number of leading industry standards. When used in combination Elfab's rupture discs and detection systems can offer industry leading SIL ratings to offer customers increased safety information. Please **contact** our technically trained sales engineers for more information.

- ATEX approved EXII 1GD EEx ia IIC. EC-Type Examination Certificate ITS03 ATEX 21698X, must be connected to an intrinsically safe supply.
- ATEX approved, thus able to operate in all levels of potential explosive atmospheres
- Non-invasive, fail-safe detection system
- Not affected by downstream pressure fluctuations or corrosion
- Sensor is not in contact with the process therefore there are no potential leak paths
- IP 66 rated