

# Wireless Flo-Tel™



## Wireless Rupture Disc Burst Detection

### Industry first WirelessHART™ burst detection system

Elfab are the first rupture disc manufacturer to offer a burst detection system compatible with WirelessHART™ gateways and transmitters. Wireless Flo-Tel™ combines Elfab's industry leading burst detection system with the latest WirelessHART technology. Wireless Flo-Tel provides a reliable solution to notify when a rupture disc bursts without the need for time consuming and expensive wiring in ATEX zones.

Flo-Tel technology has been proven in a wide range of industry sectors with varied applications to provide a failsafe detection solution for over 20 years. By incorporating this ATEX-approved, non-invasive solution into a WirelessHART network it further enhances the benefits of this product. Wireless Flo-Tel is offering significant cost-savings over traditional burst detection systems. Customers can expect to eliminate the costs and complexity of additional wiring by saving an estimated 50% of the cost and 90% of the time required to install a conventional wired burst detector.

### Easily integrated into existing Emerson™ Systems

Sites already operating Emerson™ WirelessHART technology have the added benefit of being able to integrate Elfab's rupture disc and detection solutions into their established network, further reducing costs and system complexity.

Emerson's Smart Wireless Gateway provides industry leading security, scalability and data reliability. Layered security ensures that the network stays protected and additional devices can be added at any time making the process of upgrading from traditional burst detectors to a wireless solution a relatively simple and low cost process.

### Unique features and benefits

- Significant cost savings over traditional burst detectors
- Non-invasive, fail-safe solution
- Eliminates the need for wiring
- Rapid notification of disc burst
- Can be integrated into existing WirelessHART networks
- Compatible with Elfab's full range of Flo-Tel detection systems
- ATEX-approved



**Wireless Burst Detection – Cutting the cost of wiring**

## Instantaneous, fail-safe notification

---

Incorporating Emerson's Rosemount Transmitter to our Flo-Tel detector completely eliminates the need for wiring. On burst, the Flo-Tel sensor detects change in status of the rupture disc allowing the wireless transmitter to send a notification to the gateway within milliseconds of the change. After rupturing, the disc is the only element that needs replacing allowing for quick start-up of process after replacement. The Flo-Tel sensor and wireless transmitter are not in contact with the process medium, therefore there are no potential leak paths or likelihood for spurious alarms.



## Advanced performance technology

---

Flo-Tel is Elfab's ATEX approved, non-invasive, magnetic burst detection system, designed to offer a practical and reusable solution for rupture disc detection needs. Suitable for use in all levels of potentially explosive atmospheres, and in process temperatures ranging from -55C up to 250C.

The Flo-Tel 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 it an open circuit signal. Unlike traditional burst detection systems, after rupturing, the disc is the only element that needs replacing.

Now that Flo-Tel is available as a wireless solution, customers are benefiting from even further cost and time savings. Elfab will provide assistance to determine the most suitable wireless package for your requirements dependent on process conditions and plant size.



**For further information contact your Elfab Sales Engineer**

Elfab Limited  
Alder Road, North Shields  
Tyne & Wear, NE29 8SD, UK  
Tel: +44 (0)191 2931234  
Fax: +44 (0)191 2931200

Email: [sales@elfab.com](mailto:sales@elfab.com)

Elfab Limited Singapore  
3 International Business Park, #01-18,  
Nordic European Centre,  
Singapore 609927  
Tel: +65 65559130  
Fax: +65 65559138

Email: [singapore-sales@elfab.com](mailto:singapore-sales@elfab.com)

Elfab Limited Poland  
Atrium International, AL.  
Jana Pawla II 23  
00-854 Warszawa, Poland  
Tel: +48 (22) 65 38 604

Email: [sales@elfab.com](mailto:sales@elfab.com)

**Wireless Burst Detection – Cutting the cost of wiring**