Pipeline Protection System

Security Our Commodity, Your Protection Assured

The safe operations of key oil and gas installations are mission critical to the balance of the global economy. Our intelligently-designed pipeline protection system is capable of supporting comprehensive strategies that integrate complex systems over long distances and through the remotest of regions.

With far-ranging capabilities that will not only deliver critical protection and early detection of sabotage, vandalism, supply disruption and detection of leaks and pipeline breaks, AgilFence goes above and beyond to customize and meet the needs of today’s most critical assets.

Our Solutions include:
1. Smart DroneBox
2. DAS Detection
3. DTS Leakage Detection

UAV Alarm Response Using H3 Dynamics DroneBox

AgilFence solutions can be integrated with DroneBox to offer our clients a smart unmanned response system which launches drone missions for alarm verification.

• Auto-launch based on pinpointed location provided by AgilFence solutions
• Robust standalone system with auto-recovery capability
• Solar powered off-grid capabilities, ready for next mission

Excavation & Theft Detection Using Fibre Optic Acoustic Sensing Cable

AgilFence DAS is a distributed acoustic sensing system for buried pipelines that require protection. It senses and records real-time sound signals along the entire length of a pipeline continuously without any blind spots.

• Advanced Phase-Sensitive Optical Time Domain Reflectometer (PS-OTDR) technology
• Effectively detects scenarios of theft and unauthorized excavation attempts down to 50m
• Extremely low false alarm rates with intelligent signal processing that sieves out unwanted signals
• High-grade fibre optic cable that is resistant to EMIC / EMC and lightning

Leakage Detection Using Fibre Optic Temperature Sensing Cable

AgilFence DTS is a distributed temperature sensing system. It records real-time temperature along the entire length of a pipeline as a safety measure for occurrences such as gas or oil leakage.

• Advanced Raman Optical Time Domain Reflectometer (ROTDR) technology
• Measurement accuracy down to 1°C
• 24/7 real-time monitoring
• Accurate and instantaneous alert on abnormal activities
• Cost-effective and easy to deploy

OVERVIEW
ABOUT

AgilFence
Intelligent Solutions, Smarter Protection

Innovation-driven and objective-led, AgilFence specializes in the security of critical infrastructures. Our ability to deliver unique and confident solutions have seen implementations at a global scale, and have transformed how organizations protect their key assets and installations.

From intrusion detection systems, security surveillance solutions to integrated alarm management systems – we’ve got you covered.

OUR COMPANY

ST Electronics

ST Electronics (Singapore Technologies Electronics Limited) is the electronics arm of Singapore Technologies Engineering Ltd, one of the largest public-listed companies on the Singapore Stock Exchange. ST Electronics is a global engineering company specialising in the design, development and integration of advanced electronics and communications systems. We have a presence in over 20 countries spanning North America, Latin America, Europe, Africa, the Middle East, China, India and Southeast Asia.

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