

# Greenlight™

## Consistently accurate integrity testing

Digital pressure testing system

Regular pressure testing of well barriers is a vital contributor to well integrity and safety. Greenlight employs digital technology in a compact user-friendly platform to consistently approve or reject pressure tests against predetermined test criteria—objectively and accurately.

The integrity of a well relies on the collective integrity of a large number of components and sub-systems. Regular and accurate pressure testing is a critical industry requirement that helps to ensure the integrity and safety of barriers and wells.

Traditional testing methods utilize equipment that can be cumbersome to install and operate, but crucially may rely on devices such as rotating chart recorders. First patented in the late 19th century, chart recorders have several drawbacks—the recording range is restricted by the fixed diameter of the paper chart, but more importantly, resolution and sensitivity restrictions limit the precision and effective accuracy of displayed results. The need to visually interpret the chart compounds this issue—bringing an element of subjectivity in determining if the test criteria have been fully met. This can result in uncertainty and the risk of undetected failures.

In contrast, Greenlight seamlessly integrates modern technology in a portable platform to provide a much improved alternative to conventional pressure testing systems. Greenlight combines three main elements—an EEx certified high-precision pressure sensor; a compact Ex certified communications module; and in-house developed PC-based algorithms and user interface. In designing Greenlight, our engineers focused on four key areas—accuracy, precision, flexibility, and ease of use.



### Applications

- Pressure testing of wells, well systems and well components
- Integrity verification of pressure bearing components or barriers

### Features

- High precision ATEX-approved, EEx certified pressure transducer;
- 20 kpsi working pressure; 5-year calibration interval
- Autoclave 9/16 medium pressure connection; HART digital signal
- Ex certified communications module; USB interface
- Software configurable pressure test criteria
- Automatic acceptance or rejection of test criteria

### Benefits

- Improved integrity management
- Accurate and precise testing; unambiguous results
- Eliminates interpretation and subjectivity
- Easy to configure, install and operate
- Provides auditable proof of compliance

# Archer

