Non-intrusive Magnetic Pig Passage Signaler

FOR OVER TEN YEARS, THE CD52 BANDIT has meant simple, reliable, and durable pipeline pig passage detection in the world’s most demanding environments.

Non-intrusive - The CD52 Bandit provides quick and easy non-intrusive pig passage detection of any pig moving between 0.01 and 20 meters per second. Non-intrusive means less maintenance and corrosion, and no possibilities of pipeline leaks.

Quick and Easy Installation - No hot-tapping required. The CD52 Bandit can be installed in minutes by any field technician.

Sensing Means of the CD52 Bandit consist of a set of patented, non-intrusive proprietary noise-canceling antennas invented by CDI specifically for pig passage detection. This antenna system gives the Bandit its ability to reject nearby magnetic noise and halt costly false-positive triggering. A small, safe, permanent magnet or active transmitter installed on a pig is all it takes to put the Bandit to work!

Field Proven - We have been manufacturing our patented CD52 family of pig signalers for a decade. With thousands of systems installed around the globe, the CD52 family has a reliable performance record in burning deserts, frozen tundras, and every environment in between. Many of our customers are large oil and gas producers who rely upon the CD52 family of equipment to set valves, control pump stations, and communicate with SCADA systems.

Remote Signaling of a passage is easy with a built-in flashing LCD visual display and dry-contact relays. These normally-open or normally-closed relays may be used in conjunction with existing SCADA systems to integrate the CD52-Bandit into a pipeline control and signaling network. An optional array of four high-luminosity LEDs (shown here) can be seen over distances as great as 100 meters (328 feet).

1 YEAR WARRANTY

NOW AVAILABLE AT

Apache Pipeline Products

1575 - 90 Ave Edmonton, AB Canada T6P 0E2
Ph: 780.416.4850 | Fax: 780.416.4829 | apachepipe.com | Email: sales@apachepipe.com

world class world wide
**CD52 Bandit**

**Non-intrusive Magnetic Pig Passage Signaler**

**Line or Battery Power** - The Bandit may be line or battery powered for greatest flexibility. Two standard D-Cell alkaline batteries provide a full year of service, or, 24VDC power may be used for indefinite operation. Changing batteries is as simple as opening the cabinet, unscrewing the face of the unit, removing the old batteries, and inserting new ones.

**Stainless Steel Sunshade** helps protect the Bandit from intense sunlight by reducing overall temperature inside, thus prolonging the life of the electronic components. 316 stainless steel construction guarantees long life in a harsh pipeline environment.

**Conduit connections** are standard ¾-in. NPT or M20 metric connections.

**Easily bands to pipelines from 2 in. to 60 in. (50–1,524 mm) diameter.**

**OPERATIONAL SPECIFICATIONS**

- **Operational Principle:** Non-Intrusive Passive Magnetic
- **Sensor:** Noise-Canceling Wire-wound Antennas
- **Travel Direction:** Bi-Directional
- **Devices Detected:** Permanent Magnet or Electromagnetic Transmitter (CD42 Transmitters or CD52 Permanent Magnets recommended)
- **Detection Speed:** 0.01 meter/sec to 20 meter/sec
- **Passage Visual Indicator:** LCD blinks one hour after passage LCD holds steady for next 11 hours Auto-Resets at 12 hours
- **Passage Electrical Indicator:** Isolated Dry Contact Closure Relays
- **Pipeline Diameters:** 3/4 in. to 60 in. (19 mm to 1524 mm)
- **Pipe Wall Thickness:** 1.5 in. (38.1 mm) Maximum*

*Where pipe wall thickness exceeds 1 in. (25.4 mm) a custom magnet may be required. Please Consult CFI for an evaluation of deployment options.

**POWER SPECIFICATIONS**

- **Source:** Two 1.5 VDC Alkaline D-Cell Batteries** or 24VDC External Power
- **Battery Life:** One Full Year Minimum
- **Housing:** Aluminum (standard) or optional marine-coated 316L Stainless Steel
- **Window:** Tempered Glass

**CONSTRUCTION**

- **Sun Shade:** Protection from intense sunlight
- **Heater System:** Recommended for operation below ~22°F (~−30°C)
- **LineStat:** Satellite Radio for transmitting passage time, date, and GPS location via email or SMS message
- **Remote Indicator System (RIS):** Provides visual passage indication up to 328 ft (100 meter)

**SYSTEM CERTIFICATIONS**

CD52 Bandit is available with either ATEX/IECEx or CSA-UL certifications

- **ATEX**
  - SIRA 13ATEX 1381
  - II 2G Ex d mb IIB T5 Gb IP66

- **IECEx**
  - IECEx CSA 13.0039/00
  - Ex d mb IIB T5 Gb IP66

- **CSA-UL**
  - CSA-UL Standard C22.2 No.30
  - rated for Class 1 Division 1

**STANDARD**

- **PORTABLE**
- **PIPE EXTENSION**
- **FLEX CABLE**
- **PORTABLE STAINLESS STEEL**

NOW AVAILABLE AT

1575 - 90 Ave Edmonton, AB Canada T6P 0E2
Ph: 780.416.4850 | Fax: 780.416.4829
apachepipe.com
Email: sales@apachepipe.com

world class world wide