

CD47-C

Time-based Benchmarker

The CD47-C Time-based Benchmarker records the GPS time of a passing intelligent inspection tool. This precision time, coupled with the physical pipeline location, is correlated with data recorded by the inspection tool. The result: major increased accuracy of smart pig feature location callouts.

An onboard Global Positioning System (GPS) provides a synchronized tool passage time accuracy guaranteed to be within 250 milliseconds over system battery life.

The CD47-C is the third generation time-based benchmarker created by CDI in response to customer demands for accurate, reliable, and robust equipment that can be transported anywhere in the world and work “out of the box” in extreme heat and cold conditions. The new CD47-C is smaller, lighter, and easier to use than ever before!

With its ability to record passages of both transmitter-equipped and magnetic (MFL) inspection tools without transmitters, the CD47-C provides users with a comprehensive, well-tested and field-hardened system for their benchmarking requirements.

Pig run information, including

- Precise GPS time of pig passages
- Current GPS position including altitude
- Number of recorded passages
- Number of ignored magnetic events
- Number and times/dates of discarded magnetic disturbances
- Signal and noise threshold
- Firmware versions (CD47 & GPS receiver)
- Battery voltage
- Unit temperature
- Unit serial number

is recorded and stored to non-volatile memory and transferable to your laptop or PC via Bluetooth or RS-232, and can be verified immediately on a multi-lingual (English, Spanish, or German) LCD. In addition, 16 bright red LEDs visible from a distance of up to 300 ft [91 m] indicate passage.



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The CD47-C is custom-molded ABS plastic with urethane protective bumpers and designed to “cradle” onto an exposed pipeline and stack for efficient storage, transport, and shipping.

System power is provided by two D-Cell alkaline batteries which yield a seven-day operational life. (Extendable to 45 days with optional Long Life Battery Pack.)



Optional LineStat Global Satellite-based Event Notification Radio Service lets you autonomously monitor pig passages and send remote notifications as emails or text messages. LineStat requires no cellular telephone network, and functions anywhere in the world.



For underwater deployment, a Subsea Housing is available to contain and protect the CD47-C to a maximum depth of 492 ft [150 m]. A power access port permits operation without disassembly. The housing frame’s inverted vee shape fits any pipeline diameter from 6 in. to 60 in. [152 to 1,524 mm] and can be fitted with either Tee or Fishtail ROV handles.

A “Swamp Antenna” is also available for shallow-water ≤ 50 ft. [15 m] passage detection.

