Product

Pipeline Pig Tracking, Signaling, and Communications Equipment Catalog

Revision 12



· Onshore · Offshore · Subsea







About Our Products

CDI DESIGNS AND MANUFACTURES A WIDE VARIETY OF PIPELINE PIG LOCATING, TRACKING, AND PASSAGE DETECTION EQUIPMENT for use on land, offshore platforms, and subsea environments. Known for their durability, reliability, and ease of use, our products are in use on every continent.

SALES AND SERVICE are inseparable. Our equipment is not only sold worldwide, it is supported by an extensive dealer network and supported by our in-house technical staff.

TRAINING can be conducted here in our spacious facility in Oklahoma, USA, at your site, or online.

CUSTOM APPLICATIONS – CDI works with many oil, gas, and energy companies worldwide to design custom equipment when their requirements differ from our standard product offerings. CDI's on-site engineering and machining capability allow us to provide quick a turnaround response to product customizations. If your project demands customized equipment, CDI would be happy to work with you to realize your goals. Contact us today!

TRY BEFORE YOU BUY – Most of our products are available for rent. Rental systems which become sales receive a discount from the retail price!

WARRANTY - All CDI equipment includes a One Year Warranty*

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* All equipment sold by Control Devices, Incorporated (CDI) is warranted for a period of one (1) year from the date of shipment to Purchaser, providing the instrument or equipment has not been modified, abused or used for purposes other than that for which it was designed. Operating equipment while in a damaged condition nullifies this warranty. Batteries, probes, leads, magnets and other consumables subject to wear are not covered by this warranty. CDI will repair or replace faulty equipment during the warranty period when the cause is a defect arising from faulty design, materials or workmanship.

Information in this catalog subject to change without notice.

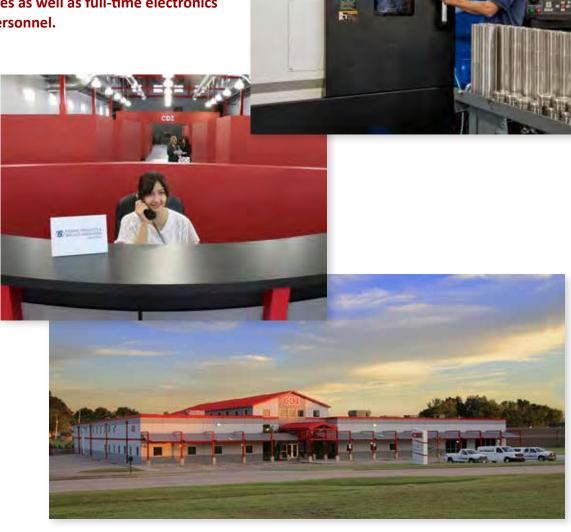
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CDI is a family-owned and operated business located in Broken Arrow, Oklahoma, just 12 miles from downtown Tulsa. Incorporated in 1982, CDI proudly manufactures products in the United States. CDI currently employs a dedicated team with experience in electronics and mechanical design, software

and firmware programming, electronics manufacture, machining, and more.

All CDI products are designed and built completely in-house utilizing an on-premises machine shop boasting six fully-automated CNC machines as well as full-time electronics assembly personnel.



Contents

Non-Intrusive Pig Signaling Systems

CD52 Bandit CD52-316SS **Trip Magnets**

A-30/A-45 Subsea Non-Intrusive Passage Detection



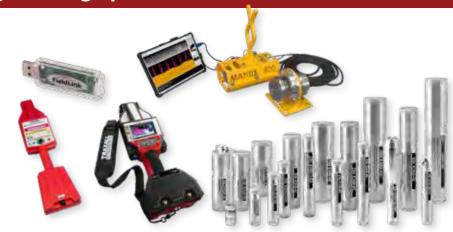






TRAXALL Multi-frequency Pig Tracking Systems16

TRAXALL 500/501/620/720/770 **Traxall Accessories** X100-1N, 2N, 3N, 4N, & 5N Transmitters X100-2N-SWX & RC Transmitters X200-2AA & 3AA Transmitters X300-2C, 3C, 4C, & 5C Transmitters X400-2D, 3D, 4D, & 5D Transmitters **MANTIS 820 ROV Tracking Receiver**



22 Hz (Legacy) Pig Tracking and Locating Systems

CD42-STS Subsea Diver/ROV Receiver CD42-T1A/T1A-SWX Transmitter CD42-T3 Transmitter CD42-SWX Module Test Stand







Acoustic Tracking Systems	25
SoniTrack XLR Geophone	CDI
Above Ground Markers & Satellite No	otification Systems26
CD47-C AGM CD47-C Subsea AGM AGM Accessories	
InLine Inspection Tool Systems	28
CD42-T0-MPS Transmitter CD42-T1-MPS Transmitter CD42-T2-MPS Transmitter CD49-SC Transmitter CD49-LC Transmitter CD49-PCB	
GlobalTrack	29
GlobalTrack Browser Based Real Time Pig Tracking Software	GLOBALTRACK 🕡
Appendix	30



Transmitter Installation Instructions

CD52 Bandit 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. The CD52 Bandit is available with ATEX/IECEx, CSA-UL, and UKCA certification.



CD52-316SS Stainless Steel Non-intrusive Pig Passage Signaler

Harsh environments are a fact of life in the world of energy production! The CD52-316SS is ATEX, IECEx, and UKCA rated and encased in corrosion-resistant 316 stainless steel. These units are ideally suited for harsh offshore and desert environments.



CD52 Bandit Operational Specifications

Non-Intrusive Passive Magnetic Detection Type: Applications: Passage Detection/Recording **Deployment:** Land-based Sensor: **Noise-Canceling Wire-wound Antenna Detection Direction: Bi-Directional Devices Detected: Permanent Magnet or Electromagnetic Transmitter** (TRAXALL/CD42 Transmitters or CD52 Permanent Trip Magnets recommended) **Detection Speed:** 0.01 meter/sec to 20 meter/sec **Passage Visual Indicator:** LCD blinks one hour after passage, holds steady for next 11 hours, Auto-Resets at 12 hours Passage Electrical Indicator: **Isolated Dry Contact Closure Relays Pipeline Diameters:** 2 in to 60 in [50.8 mm to 1,524 mm]

Construction

Power Source: Battery Life:

Pipe Wall Thickness:

Housing: Aluminum (standard) or optional marine-coated 316L Stainless Steel

1.5 in [38.1 mm] Maximum*
D-Cell (2) Alkaline Batteries

One Full Year Minimum

Window: Tempered Glass

Optional Equipment

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 text

(see pg. 32)

Remote Indicator System (RIS): Provides visual passage indication up to 328 ft [100 m]

System Certifications

ATEX ERO21ATEX0004X II2G Ex d mb IIB T5 Gb IP66 IECEX EMT 21.0004X Ex d mb IIB T5 Gb IP66

OR

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

Division 1

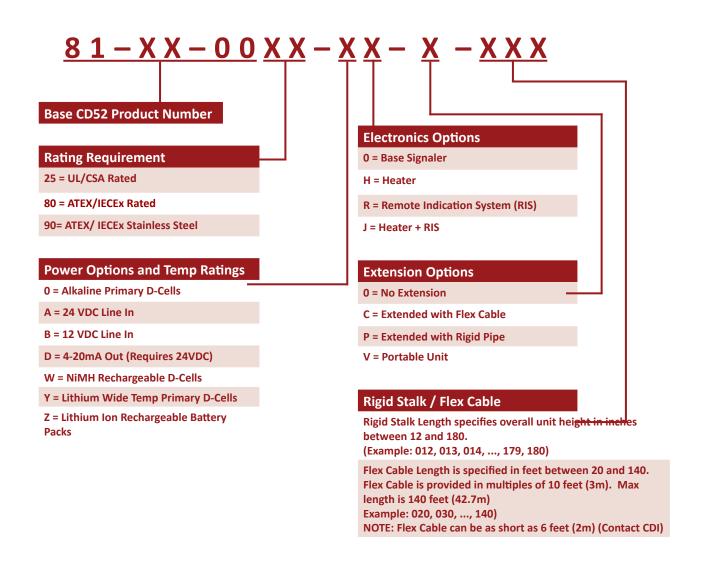
UKCA EMA21UKEX0053X

* Custom magnet design may be required where pipe wall thickness exceeds 1 in [25.4 mm] or pipe diameter exceeds 48 in [1,219 mm]. Contact CDI for an evaluation of deployment options.



CD52 Bandit Part Number Builder

Use this matrix to configure the correct Bandit Part Number



CD52 Bandit and 316SS Optional Equipment

Remote Indicator System LEDs for high-visibility up to 328 ft [100 m]



Cathodic Protection Base Mounting - insulation matting protects pipeline coating



Stainless steel sunshades for CD52 Bandit and 316 SS protect components by reducing internal temperature



Heat riser insulators for operation where pipeline surface > 80°C [176°F]





24 VDC internal heater for operation below -22°F [-30°C]



Installation Tooling and Equipment



Banding tool for securing CD52 Bandit and 316-SS to pipeline



Type 201 Stainless Steel Banding Strap, 100 ft [30.5 m] & Buckle



Type 316 Stainless Steel Banding Strap, 100 ft [30.5 m] & Buckle



Nylon Strap with type 304 Stainless Steel Ratchet for quick installation/removal (Set of two)



CD52 Bandit and 316SS Replacement Components

CD52 Bandit LCD Replacement Module



CD52 Bandit User Board Replacement Module



CD52 Bandit PIC and Analog Filter Replacement Module



CD52-Remote Indicator System



CD52 Bandit Heater Replacement Module Includes parts 80-01-0055-00 (Heater and 80-01-0069-00 (Thermostat)

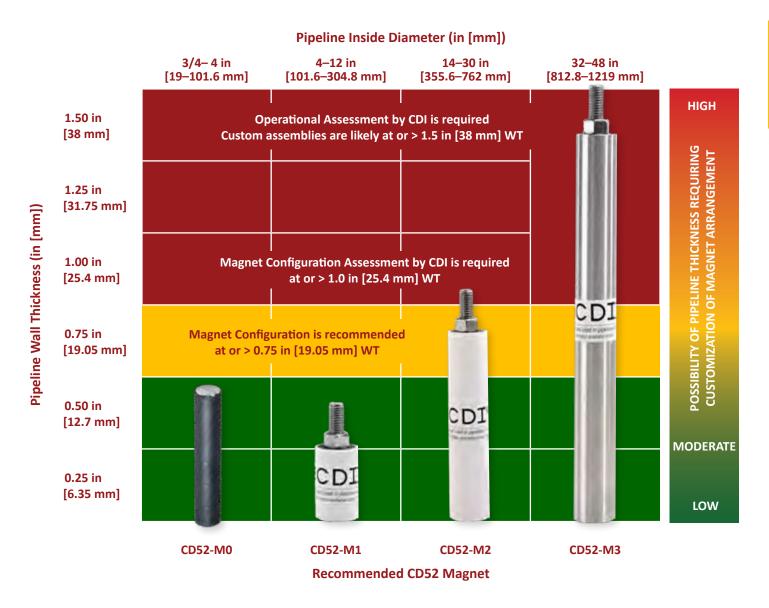


CD52 Bandit Replacement Antenna (for rigid stalk units only)



CD52-M Series Rare Earth Trip Magnets

CD52-M Series are the most powerful rare earth trip magnets available in the industry. They may be attached to or placed inside almost any type of pipeline pig and are detectable at any speed by our CD52 signaling system.



Magnet Type: Neodymium (NdFeB)
Max Operating Temp: 200° C [392°F]

Threaded Stud (M1-M2-M3): 1/2-13 UNC x 1.375 in [35 mm] 4.665 in [118 mm] also available

CD52-A30/A45 Subsea Pig Signalers

Pipeline pigs are a routine part of modern pipeline operations. Keeping track of those pigs in a subsea pipeline network has become an ever-increasing part of what the pipeline integrity specialist must do. If you're running pigs below the waves, you need the CD52-A30/A45 for tracking and signaling.



CD52-A30/A45 Operational Specifications

Detection Type:	Non-Intrusive Passive Magnetic
Applications:	Passage Detection/Recording
Deployment:	Subsea (ROV or Diver)
Sensor:	Noise-Canceling Wire-wound Antenna
Detection Direction:	Bi-Directional 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, steady for next 11 hours, auto-resets at 12 hours Four high-visibility flashing red LED in an array that flashes pig count up to 100 pigs with flash duration of 48-hours Optional Xenon flasher: 48-hour duration
Passage Electrical Indicator:	Isolated Dry Contact Closure Relays
Pipeline Diameters (Standard):	2 to 16 in (50.8 mm to 1524 mm)**
Pipe Wall Thickness:	Up to 1.5 in [38 mm]*
Power Source:	D-Cell (2) Alkaline Batteries
Battery Life:	One year (365 days) Alkaline
Controls:	User Interface T-Handle (to clear passages/set clock)
Dimensions (No saddle/fishtail)	16 in x 21 in x 16 in [0.4 m x 0.5 m x 0.8 m]
Dimensions (with pipe saddle)	16 in x 21 in x 23 in [0.4 m x 0.5 m x 0.6 m]
Fishtail Handle Height	9 in [0.2 m]
Design Life:	20 Years

Construction

Housing: Duplex housing, Titanium faceplate, 316 Stainless Steel frame, Quartz window

CD52-A30/A45 Performance

	CD52-A30	CD52-A45
Water Depth (maximum):	9,842 ft [3,000 m]	14,764 ft [4,500 m]
Operating Pressure (maximum):	4,388 psi [303 bar]	6,575 psi [453 bar]

^{*} Custom magnet design may be required where pipe wall thickness exceeds 1 in [25.4 mm] or pipe diameter exceeds 48 in [1,219 mm]. Contact CDI for an evaluation of deployment options.



^{**}Custom pipe saddles to accomodate larger pipelines available. Contact CDI for options.

TRAXALL 500/501/620/720/770 Multi-frequency Receivers

TRAXALL handheld receivers detect and record pig passages three different ways: by using industry-standard 22 Hz transmitters (manufactured by CDI or others), by using one of CDI's color-coded and frequency-adjustable transmitters,



TRAXALL Receiver Comparison

Use this matrix to select the best TRAXALL receiver for your application

FEATURE	TRAXALL 500	TRAXALL 501	TRAXALL 620	TRAXALL 720	TRAXALL 770
Tracks any 22 Hz Legacy Transmitter	•	•	•	•	•
Tracks CDI TRAXALL Frequencies Beyond 22 Hz			•	•	•
Max Transmitter Frequencies Supported	1	1	3	3 + MFL	8 + MFL
Tracks/Locates MFL Magnetizers Without a Transmitter				•	•
Graphical User Interface				•	•
Remote Antenna Option Available		•	•		
Remote Passage Flasher Option Available		•	•	•	•
Remote Viewing via Bluetooth & PC Software				•	•
Remote Control via Bluetooth & PC Software				•	•
Pig Passage GPS Position & Data/Image Recording				•	•
Track back to Previous Locations via GPS				•	•
Google Earth™ GPS Integration				•	•
LineStat Satellite Passage Notification Option Available		•	•	•	•
Ships in Pelican™ Carry/Shipment Case	•	•	•	•	•
Cold-Weather Operational to -40° Celsius Option Available	•	•	•		
Durable and Weatherproof	•	•	•	•	•

TRAXALL Operational Specifications

	500/501/620	720/770
Detection Type:	Non-Intrusive Passive Magnetic	Non-Intrusive Passive Magnetic
Applications:	Passage Detection, Tracking, and Locating	Passage Detection/Recording, Tracking, and Locating
Deployment:	Land-based	Land-based
Sensor:	Noise-Canceling Wire-wound Antenna	Noise-Canceling Wire-wound Antenna
Detection Direction:	Bi-Directional	Bi-Directional
Passage Visual Indicator:	LED	LCD w/three viewing modes
Passage Electrical Indicator:	Isolated Dry Contact Closure Relay	Isolated Dry Contact Closure Relays
Power Source:	AA-Cell (6) Alkaline Batteries	D-Cell (6) Alkaline Batteries
Operational Temperature Range:	-40°F to +185°F [-40°C to +85°C]	-4°F to +140°F [-20°C — +60°C]
Controls:	Power ON/OFF, Speaker Mute, LED Brightness, Gain Sensitivity	Power ON/OFF, Automatic Light Sensor, Keypad, Gain Sensitivity
Dimensions:	23 in x 5-1/4 in [584 mm x 133 mm]	23-1/2 in x 7 in [597 mm x 178 mm]
Construction		
Chassis:	Water-resistant durable plastic	Water-resistant durable plastic and powder-coated aluminum

Bulkhead-to-Client Device Cable

(TRAXALL 501, 620, 720, & 770)



Special 8 ft [2.4 m] cable to connect a user-provided device to the TRAXALL 770/720 Programmable Relay Port. Typical devices include lights, horns, and other audio/visual equipment used where an unmanned passage annunciation must be monitored.



TRAXALL Remote Control

(TRAXALL 770 & 720)

Use your laptop or PC to monitor and operate your TRAXALL 770/720 from a remote location (for example, a vehicle cab or shelter during inclement weather) with TRAXALL Remote Control, an application available as a no-cost download for all TRAXALL 770/720 users.



Remote Antenna (TRAXALL 501, & 620)

External antenna with 20 ft [6 m] cable for tracking, locating, or pinpointing over submerged or limited-access pipeline.



The Remote Flasher is useful for at-a-glance passage confirmation where an unmanned passage must be monitored.

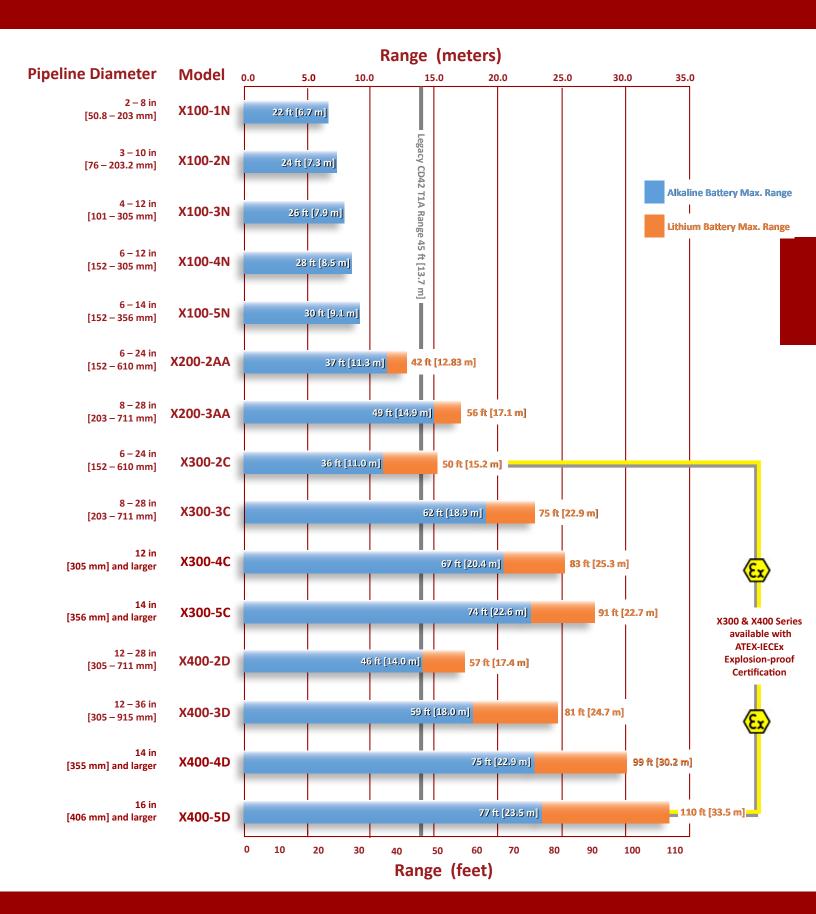
When the 15 ft [4.5 m] cable is attached, the flasher is automatically activated when a transmitter is detected.

Programmable Multi-frequency TRAXALL Transmitters

CDI X-Series Transmitters are TRAXALL-compatible electromagnetic pipeline pig-tracking devices offering both programmable frequency and power control through CDI's proprietary FieldLink wireless communications system.

Models where noted are available with ATEX-IECEx certification or titanium construction for extreme high-pressure (7500 psi/517 bar) pipeline environments.





MANTIS 820 ROV Tracking Receiver

The MANTIS 820 is CDI's newest product for subsea pipeline pig tracking. The MANTIS is a deep-water ROV tiein solution which provides all of the benefits of CDI's multi-frequency electromagnetic pig tracking in a durable and robust package. The MANTIS 820 may be purchased or rented to use along with our wide family of TRAXALL Transmitters which include eight ATEX variants.

Operational Specifications

Detection Type: Non-Intrusive Electromagnetic

Applications: Tracking, Locating, and Pinpointing

Deployment: Mounted to subsea ROV

Antenna held in manipulator arm (typical)

5.4 in x 3.75 in [137 mm x 95 mm]

Devices Detected: Electromagnetic Transmitters

(22 Hz + 2 additional TRAXALL transmitter frequencies)

Power Input: 6 VDC to 48 VDC

ROV Power Source:

Dimensions (Housing):

RS-232 Bi-directional Serial Data Stream Output:





Optional Equipment

User Interface System: Microsoft® Surface Tablet configured

with MANTIS application software

22 Hz (Legacy) Pig Tracking and Locating Systems

CD42-STS Subsea Diver/ROV Pig Tracking System

Designed for a subsea environment, the CD42-STS tracks moving pigs and locates stationary pigs equipped with CDI's standard line of electromagnetic transmitters. The CD42-STS may be implemented to a maximum depth of 8,000 ft (2,438 m) and is designed to be carried by either a diver or ROV.

CD42-STS Operational Specifications

Detection Type: Non-Intrusive Electromagnetic

Applications: Tracking and/or Locating via Diver or ROV

Deployment: Subsea (ROV or Diver)
Sensor: Wire-wound Antenna

Detection Direction: Bi-Directional

Devices Detected: Electromagnetic Transmitters (Standard CD42 Family)

Detection Speed: 0.01 meter/sec to 20 meter/sec

Visual Indicator: 16 Super-bright LED array indicates transmitter signal strength

Power Source: D-Cell (6) Alkaline Batteries

Battery Life: 60 hours (2.5 days)

Controls: Gain Adjustment via Non-penetrating Pushbutton

Dimensions: 36.5 in [927.1 mm] length x 6 in [152.4 mm] diameter

Operational Temperature Range: -4°F to +140°F [-20°C - +60°C]

Water Depth, Maximum: 8,000 ft [2,438.4 m]
Operating Pressure, Maximum: 3,560 psi [245 bar]

Construction

Housing: 316 Stainless Steel

Optional Equipment

CD42-STS Fishtail ROV Handles

C42-CPA Close Proximity Antenna



22 Hz (Legacy) Pig Tracking and Locating Systems

CD42 22 Hz Legacy Series Transmitters

CDI offers the largest family of pipeline pig location and tracking transmitters in the industry!

Manufactured in-house to exacting tolerances, our T-Series transmitters operate at the industry-standard

22 Hz frequency and are safe and reliable for use in any onshore or offshore environment and in any
pipeline product, e.g., water, oil, gas, ammonia, carbon dioxide, and more.

CDI transmitters are available in a wide variety of transmission ranges and sizes to fit every application. Flange kits are also included with most models, and many can be configured with a pressure switch module.



CD42-T1A Pipeline Dia: 8 - 28 in[203 - 711.2 mm] Pressure, max: 2,500 psi [172 bar] **Dimensions:** 10.19 in x 2.0 in [258.8 x 50.8 mm] **Batteries:** AA-Cell (6) Alkaline **Battery Life:** Standard pulse: 500 hrs Skip-one pulse: 678 hrs Material: **304 Stainless Steel** Range, open air: 45 ft [13.7 m] Alkaline 65 ft [19.8 m] Lithium Operating Temp - 40°F to 140°F

[- 40°C to 60°C]



CD42-T1A-SWX	
For Transmitter:	CD42-T1A
Pressure Range:	15-1,100 psi [1-76 bar]
Max Transmitter Pressure:	2,500 psi [172 bar]



Left to Right: CD42-T4, CD42-T3, CD42-T0, CD42-T4HP, CD42-T1AVHP

CD42-SWX Pressure Switch Module Test Stand



Range:

Test activation of your pressure switches in your laboratory or in the field before pipeline deployment. An analog (shown here) or optional digital pressure gauge provides continuous read-out of closed-system pressure.

When activation pressure is attained, transmission is confirmed by a tracking receiver such as the TRAXALL.

24

SoniTrack XLR Geophone Tracking System with Integrated FM Transmitter

The waterproof SoniTrack XLR geophone-based pipeline pig tracking system can be used to track any pig by amplifying the sounds they make as they pass through the pipes. To hear pigs, simply plug the geophone into the soil and listen for pigs via the supplied headphones. You can also can also listen wirelessly through your vehicle's audio system by using the built-in FM transmitter.

Simply press the AutoTune search button and SoniTrack XLR will automatically find the quietest unused FM band and begin transmitting audio. Tune your radio to the same FM frequency and any number of people can hear the pig's approach, no headphones required.

SoniTrack XLR

OUTHING NEW	
Principle of Operation	Geophone Acoustic Amplifier
Type of Pigs Detected	Any
Package	Waterproof ABS plastic with membrane keypad
Outputs	Headphones Out FM Transmission to FM radio receivers Auxiliary Audio Out
Inputs	Geophone Probe Input 25' Cable 12 Volt Vehicle Power Port Input (can be used in lieu of batteries)*
Batteries	4 AA- Cell Alkaline
Battery Life	40 hours minimum
Operational Temperature Range	-40°C to +85°C
Radio Transmission Range	200 ft
Detection Range	2 miles**



* Custom cable lengths available

** Varies due to pipeline conditions and type of pig



Above Ground Marker (AGM) Systems

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, correlate 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!

CD47-C Operational Specifications

Detection Type:	Non-Intrusive Passive Magnetic
Applications:	Benchmarking/Passage Detection/Recording
Deployment:	Land-based Shallow Water w/Tethered Remote Antenna Subsea w/Subsea Housing
Subsea Deployment Depth:	492 ft [150 m] w/Subsea Housing
Detection Direction:	Bi-Directional
Devices Detected:	MFL and Transmitters
Detection Depth:	16.5 ft (5 m)
Passage Visual Indicator:	16 Bright Red LED, Multi-lingual LCD
Storage Media:	2 MB Non-volatile Flash memory
Number of Recordings:	> 1,000
Power Source:	D-Cell (2) Alkaline Batteries
Battery Life:	7 Days (45 days with optional Long Life Battery Pack)



Construction

CD47-C Unit: ABS plastic with urethane protective bumpers

Subsea Housing: Powder-coated Stainless Steel



Above Ground Marker (AGM) Systems

CD47-C Time-based Benchmarker Accessories

Tethered Remote Antenna w/25 ft [7.6 m] cable for shallow water environment



CD47-C Communication Cable

CD47-C Utility Flash Drive*





Also Available:



Replacement Bluetooth Module



D-Cell Alkaline Batteries (Set of Two)



Long-life Battery Pack for sustained (45-day)
Subsea Use. Requires Shallow Water Housing

*Utility Flash Drive contains CD47-C User Guides, Marker Data Download & Analysis application, firmware, and support files.

InLine Inspection Tool Systems

InLine Inspection Tool Transmitter Family

CDI Inline Inspection Tool Transmitters are high-quality location and tracking devices specifically designed for magnetic flux leakage (MFL), ultrasonic, caliper tools, and other ILI vehicles.

ILI Tool Transmitters with Integrated Driver Circuit

ILI Tool Transmitters with Integrated Driver Circuit





CD42-T0-MPS	
Pipeline Dia:	12 in [305 mm] and smaller
Dimensions:	4.750 in x 1.500 in [120.7 x 38.1 mm]
Weight:	2 lb [0.91 kg]
Range, open air:*	40–57 ft [12–17.3 m]
Operating Temperature Range:	– 40°F to 140°F [– 40°C to 60°C]

ILI Tool Transmitters for use with Remote Driver Circuit



CD49-SC	
Pipeline Dia:	24 in [609.6 mm] and smaller
Dimensions:	4.724 in x 1.5 in [120 x 38 mm]
Weight:	2 lb [0.91 kg]
Range, open air:**	40-85 ft [12-26 m]
Operating Temperature Range:	– 40°F to 140°F [– 40°C to 60°C]

CD49-PCB

Remote Driver Circuit for CD49 Transmitters

Placement: Anywhere within an ultrasonic, magnetic flux leakage (MFL), caliper, or other tool

Input: 0-5 VDC Logic

0-36 VDC Power

ON/OFF Modes:

Pulse/Continuous

X400 MPS

Pipeline Dia:	14 in [355 mm] and larger
Dimensions:	6.7 x 2.5 in [170.2 – 63.5 mm]
Weight:	2.5 lb (x kg]
Range, open air:*	47-58 ft [14.3-17.6 m]
Operating Temperature Range:	40°F to 140°F [-40°C to 60°C]



CD42-T1-MPS

Pipeline Dia:	12 – 28 in [304.8 – 711.2 mm]
Dimensions:	6.75 in x 2.0 in [263.53 x 76.2 mm]
Weight:	2.5 lb [1.1 kg]
Range, open air:*	46-71 ft [14-21.6 m]
Operating Temperature Range:	– 40°F to 140°F [– 40°C to 60°C]



CD49-LC

CD45 EC	
Pipeline Dia:	26 in [660.4 mm] and larger
Dimensions:	6.811 in x 3.012 in [173 x 76.5 mm]
Weight:	2 lb [0.91 kg] 6.8 lb [3.07 kg]
Range, open air:**	70-135 ft [21.3-41 m]
Operating Temperature Range:	– 40°F to 140°F [– 40°C to 60°C]



^{*} Range based upon a 9-24 volt power supply ** Range based upon a 5-36 volt power supply



Browser Based Real Time Pig Tracking Software

GlobalTrack generates reports and displays your pig's location live. Watch your pigs as they travel on the map automatically recording passage times or take control and enter them manually. Easy to use spreadsheets and customizable reports provide you with a current picture of the run and keep everyone on the same page. Give your clients the current data they need with GobalTrack.





View pigs as they travel across the map



Free with CDI hardware

- Up to date views on all of your runs
- Automated emails for stakeholders
- Integrated weather alerts for your team on the ground
- Custom branded data reporting
- Multiple subscription tiers, or free with CDI hardware

Learn more at www.globaltrack.info

Transmitter Installation Instructions

Foam and Plastic Pigs

- Remove plug or bolt
- Place transmitter in cavity (either direction)
- Replace plug/bolt



Metal-bodied Pigs

Use the included flange kit* to mount a transmitter outside the casing of a metal pig.

- Install the flange kit with Allen wrench and screws as shown.
- Attach the transmitter to the customer supplied plate. Mount plate securely to the pig with transmission coil facing outward.



Checklist

Before placing a transmitter into service, always make sure:

- Batteries are fresh and of proper size and type.
- Battery direction is properly observed.
- Serviceable O-rings are installed. Brittle and/or deformed O-rings may not properly seal, thus
 compromising case integrity.
- Transmitter case, caps, and cap threads are clean and free of dents, ruptures, or other damage which could compromise the transmitter components.

^{*} Included with most CDI transmitters

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