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PCMX[redacted]

PCMx: the faster, more convenient survey system for corrosion control

Working alongside industry experts, Radiodetection pioneered the first Pipeline Current Mapper over 20 years ago. It enabled surveyors to identify possible sources of external corrosion on inaccessible pipelines, including those buried beneath rivers and highways. Since then, it has become the tool of choice for many organisations to locate and pinpoint pipeline coating defects.

PCMx builds on this pedigree, harnessing the power of Radiodetection's most advanced locator technologies to deliver faster results, simultaneous survey measurements, and integrated GPS positioning.

Faster surveying for quicker results

Increasing number of pipelines, aging infrastructures and more rigorous guidelines result in growing pressure for corrosion specialists to complete surveys and analyse results quicker. The new PCMx system has been designed to meet these challenges with faster measurements and greater portability.

One second mapping measurements

With each mapping measurement now only taking one second, survey times are reduced. Integrated GPS ensures each measurement is captured with positional data.

Two surveys in one pass of the pipeline

Conduct both ACCA and ACVG surveys with one pass of the pipeline. PCMx allows you to collect both measurement types simultaneously, reducing survey time and getting results faster.

More information at your fingertips

Radiodetection's Peak+ technology guides you to your target pipeline quicker while the compass display ensures correct alignment. Simultaneous depth and current measurements give you confidence you are following the correct line.

Faster results

A mobile (Android) companion app allows users to chart results in the field improving on-site analysis. Walk back and walk forward features gets you to your next measurement quicker. An additional PC app offers improved charting tools.

Improved ergonomics

With a balanced design and lighter weight, (2.2kg, 4.8lb), the receiver is easier to carry over long distances.
The convenience of a Li-Ion rechargeable battery pack ensures extended runtime.

[illegible]ANSI/NACE SP0502-2010[illegible]ACCA[illegible]ACVG[illegible]

[illegible]RD8100PDLG[illegible]GPS[illegible]

同時調査オプション

ユーザーは、ACVGとACCAの調査を同時にまたは個別に選択します。

人間工学の改善

レシーバーの重量はわずか4.9ポンド（2.2 kg）であるため、1日中使いやすくなります。

取り外し可能な足

完全に機能するプレミアムRD8100パイプとケーブルロケーターはそのままです。

1秒のマッピング測定

時間とお金を節約します。

統合GPS

調査ログのGPS座標の自動キャプチャ。

深さをカバーします

パイプラインの深さは、電流、電圧、およびGPSデータとともに記録されます。

コンパニオンアンドロイドアプリ

WalkbackやWalk Forwardなど、移動中にグラフを作成できます。

PCアプリ

改善されたグラフ化ツールを提供します。

ピーク

ガイドの矢印とnull矢印の歪みをチェックして場所をすばやく見つけます。

新しいTX-25

充電式バッテリーを備えたこの小さくて軽量のトランスミッターは、配電ネットワークに最適です。

TX-150

長距離伝送パイプラインのために19マイル（30 km）の信号を送信します。

強化されたセルフテスト

受信機のキャリブレーションを確認し、フィールドユーザーにセキュリティの感覚を与えます。

ecertificate

PCMマネージャーはPCソフトウェアを使用して、PCMXレシーバーのキャリブレーションを検証および認証します。

ソフトウェアとアプリ

Android電話またはタブレット用のモバイルアプリ（Bluetooth経由のデータ転送）

PC用のPCアプリ（USB経由のデータ転送）

PCMx Pipeline Current Mapper Specification

1. Product Summary

1.1	Product Overview:	PCMx is a multi-purpose Pipeline Current Mapper and precision locator. With the magnetometer foot attached the PCMx can be used to conduct pipeline coating surveys including ACCA, ACVG and depth of cover. With the foot removed the PCMx is a precision locator with the functionality of an RD8100PDLG
1.2	Product Descriptions:	Pipeline Current Mapper Multi-purpose Pipeline Current Mapper and Precision Locator Cable and Pipe Precision Locator
1.3	Intended Use:	Detecting and pinpointing coating faults on buried pipes and cables Creating survey records of buried pipes and cable locations Locating the position / path, and centerline depth of buried pipes and cables
1.4	Standard Equipment:	Locator including removable magnetometer foot Li-Ion rechargeable battery pack and mains charger Quick Start User Guide Mini USB 2.0 compliant data cable

2. Performance

2.1	Sensitivity:	2mA at 1 meter (4Hz magnetometer) 5µA at 1 meter (33kHz locate)
2.2	Dynamic range:	140dB RMS/√Hz
2.3	Selectivity:	120dB
2.4	Depth measurement precision1:	± 3% @ 2 meters and ± 5% @ 3 meters
2.5	Locate accuracy:	± 5% of depth
2.6	4Hz current accuracy:	± 5% @ 1 meter depth with 1 Amp
2.7	Active locate filter bandwidth:	± 3Hz, 0 < 1kHz ± 10Hz, ≥1kHz
2.8	Start-up time:	<1 second
2.9	Maximum depth readout[2]:	Metric: Cable / Pipe: 30m Sonde: 20m Imperial: Cable / Pipe: 98' Sonde: 65'