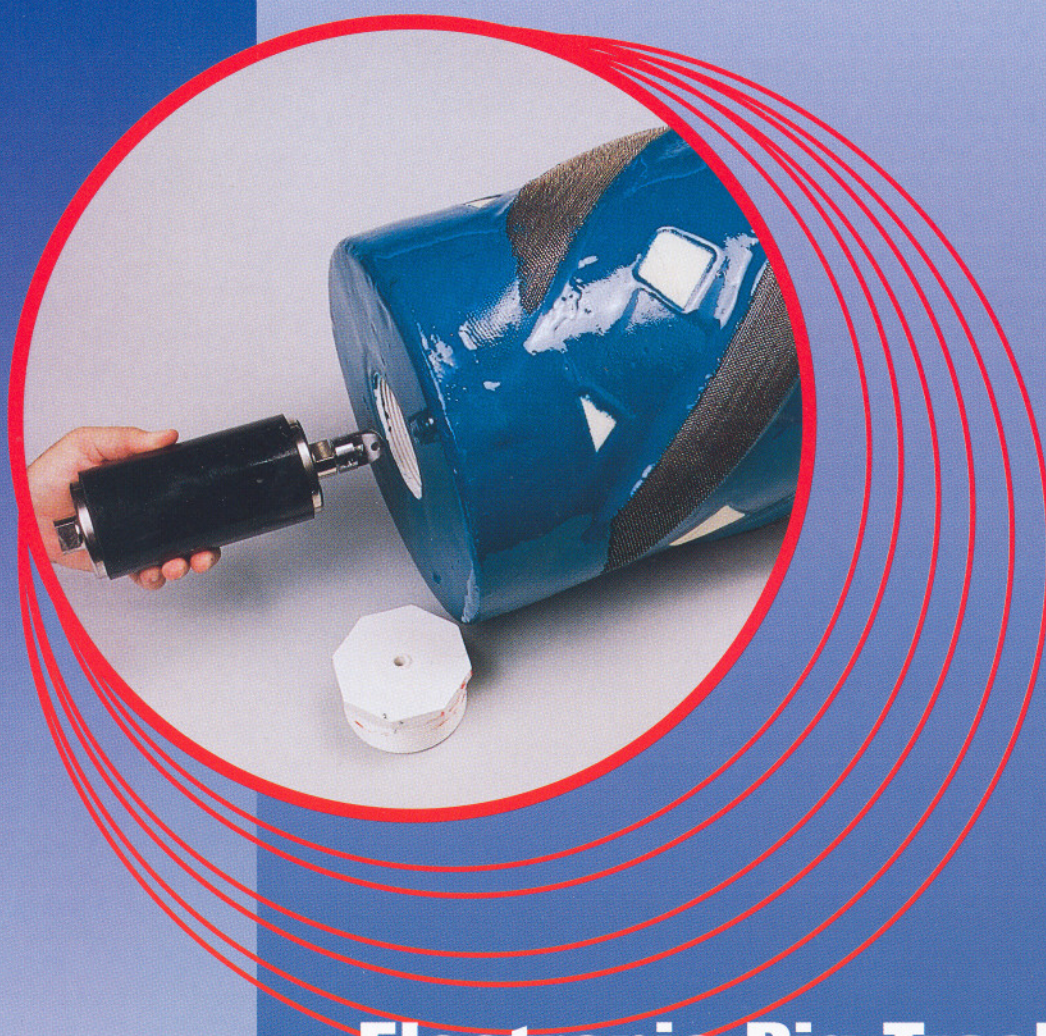


SPY[®]

PIG TRACKER



**Electronic Pig Tracking
And Locating Systems**

**Essential to Every
Pigging Job**

SPY[®] Pig Tracker ... Practical, Proven System For Tracking, Locating, Pinpointing Pigs

The SPY Pig Tracker is an electronic pig locating system that will locate your pigs wherever they go – through gathering lines, mainline transmission lines, municipal gas, water and wastewater lines, refinery and other industrial piping.

Using strong low frequency signals the Pig Tracker system gives you a more reliable signal and longer signal life. Depending on the model, Pig Tracker's signal can be received for up to 500 hours. It operates on standard batteries – readily available from retail stores. No recharger is necessary.

The Pig Tracker system consists of a cylindrical transmitter which travels with the pig, and a hand-held pick-up wand and receiver that receive the signals and inform the operator of the transmitter / pig's location.

THE WAND AND RECEIVER (PTR)

The transmitter creates a changing magnetic field which the pick-up wand senses. This signal is amplified and processed by the Pig Tracker receiver (PTR), with both audible and visual output. Two 9 volt alkaline flashlight batteries power the PTR, with a battery life of about 50 hours of continuous operation. The pick-up wand plugs into the receiver front panel. The same receiver and wand can be used interchangeably with all Pig Tracker transmitters.

The Pig Tracker System can be adapted for underwater use. A special waterproof wand with 100, 250, or 500 foot cable can be provided for underwater operations.



Tracking or Locating



Pinpointing

SPY® Pig Tracker Systems

There are three Pig Tracker Systems, each designed for maximum performance within its range of line pipe sizes. The only difference between the systems is the transmitter.

The model 12 System is designed for 12 inch and larger pipe with 1-1/2 R or greater bends. It incorporates the PT 750 transmitter.

The Model 4 System is designed for 6 inch to 12 inch pipe with 1-1/2 R or greater bends, using the PT 275 transmitter.

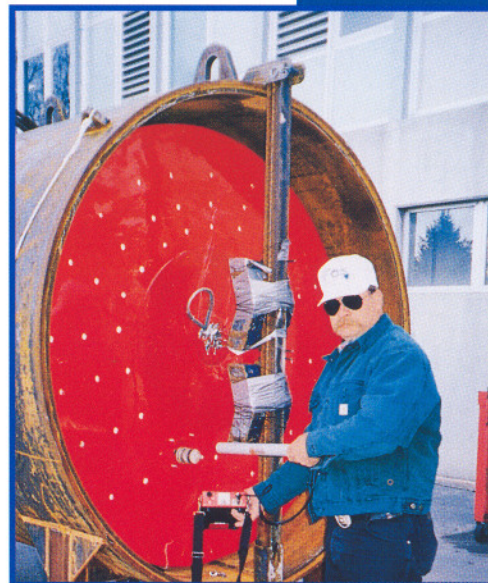
The Model 2 System is for pipe sizes 2 to 6 inches. This system includes the PT 107 transmitter, specially designed to fit in polly (foam) or urethane pigs. The PT 107 negotiates line sizes of 3 to 6 inches with 3R or greater bends and 2 inch lines with 5R or greater bends. Not suited for use with metal pigs.

Rugged, reliable Pig Tracker transmitters are sealed and potted to make

the unit water-tight and able to withstand high pressures and temperatures. Other than replacing the batteries, these transmitters are essentially maintenance-free.

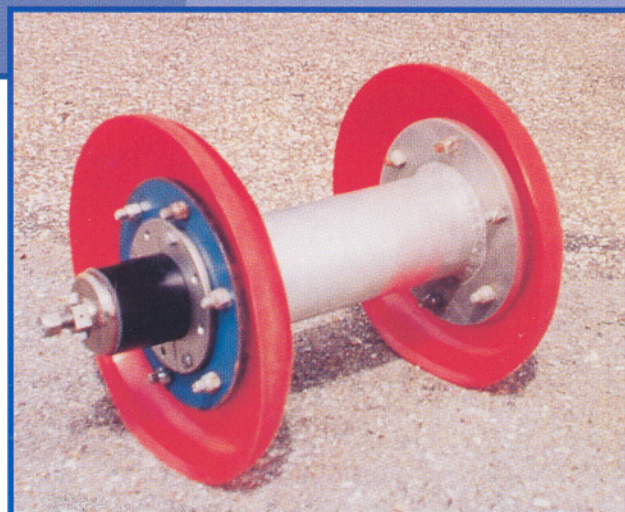
PT 750 and PT 275 transmitters can be mounted in a cavity polly or urethane pig, on a mandrel steel or urethane body pig, towed behind a pig or made into a pig by fitting cups or discs. When mounted on a steel bodied pig, at least 1/2 of the transmitter must be exposed outside the mandrel.

When towed behind a pig, it is recommended that the transmitter be fitted with a centering disc or enclosed in a piece of plastic (non-metallic) pipe, tubing or an undersized foam cavity pig.



Before you run another pig, evaluate the special advantages of the SPY® Pig Tracker ...

- Keeps pigs located – onshore or offshore
- Rugged, durable, maintenance-free
- Uses standard, readily available, non-rechargeable batteries
- Will negotiate long radius bends
- Transmitter is water-tight and can withstand high pressures and temperatures
- Signal strength and range exceed others
- Coded signal minimizes operator interpretation error

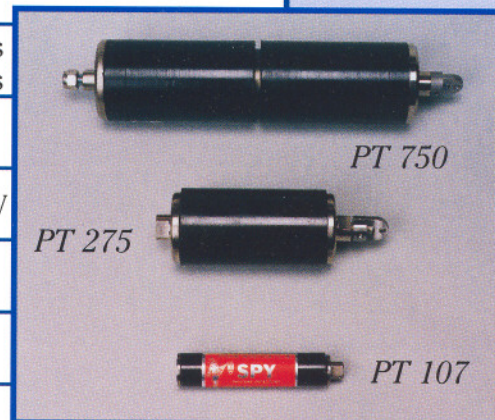


*PT 107 transmitter
with 2 inch cavity pig*



SPECIFICATIONS - SPV® Pig Tracker

TRANSMITTER	PT750	PT275	PT107
Line Pipe Size	12 inch & larger*	6 to 12 inch*	2 to 6 inch**
Transmitter Size - Length° (nominal) Diameter	14 inches° 3-1/8 inches	7-1/2 inches° 3 inches	6-1/2 inches 1-1/4 inches
Maximum Hours of Signals	500 hours	200 hours	60 hours
Batteries Required	8 Type "C" Alkaline	4 Type "AA" Alkaline	1 Lithium 3V
Maximum Pickup Range (free air)	100 ft.	60 - 75 ft.	20 - 25 ft.
Ground Cover Depth Pickup Range	25 - 30 ft.	15 ft.	8 ft.
Maximum Operating Pressure	3000 psi	2000 psi	1000 psi
Minimum pig cavity or mandrel hole for inside mounting	3-1/2 inches	3-1/4 inches	1-1/2 inches
Temperature Range	Minimum -20° F (-29°C) Maximum 180° F (82° C)		



*With 1-1/2 R or greater bends ** In 3-6 inch pipe with 3R or greater bends, in 2 inch pipe with 5R or greater bends
°Add up to 3 inches for removeable threaded rod ends and towing eye

PTR RECEIVER AND WAND — USED WITH ALL PIG TRACKER TRANSMITTERS —

	Physical Dimensions Nominal - Inches	Batteries	Maximum Hours Operation	Weight Lbs.
PTR Receiver	6-1/2 Width, 8 Length 3 Height	2 - 9 Volt	50 Hours continuous operation	3-1/2
Wand (+)	Length - 23 Diameter - 1-5/8	—	—	4

(+) For underwater use, waterproof wand with 100 foot,
250 foot or 500 foot cable available on special order.

SPY®

PIPELINE INSPECTION COMPANY, LTD.

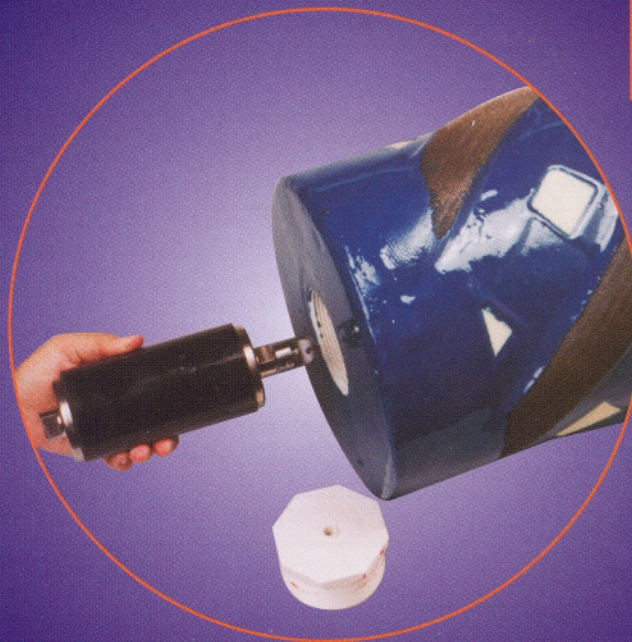
ELECTRONIC PIG TRACKER

Models

PT 750

PT 275

PT 107



The SPY® Electronic Pig Tracker is used to reliably track the passage and pinpoint the location of your pipeline pigs. It locates pigs wherever they are used: mainline transmission lines; gathering lines; municipal gas, water and wastewater lines; refinery piping and other industrial applications. The pig tracker system utilizes strong low-frequency signals that penetrate the pipe wall to consistently and accurately identify the progress of your pig. The system contains a self-powered cylindrical transmitter that travels with the pig, and a hand-held receiver with pick-up wand to identify the pig's location for the user. The transmitters are sealed and potted to resist temperature, and pressure and to protect against contaminants. The PT750 and PT275 models may be attached via standard or custom mounting hardware, internally or externally, or towed behind.

Model 2

Designed for 2 inch lines with 5R or greater bends and 3-6-inch pipe sizes with 3R or greater pipe bends. Uses the PT107 transmitter.

Model 4

For 6-inch or larger lines with 1 1/2R or greater bends. Uses the PT275 transmitter.

Model 12

For 12-inch or larger lines with 1 1/2R or greater bends. Uses the PT750 transmitter.

- Rugged and durable for maintenance-free operation
- Uses standard, non-rechargeable batteries
- Liquid-tight transmitter withstands high pressures and temperatures
- Underwater / Subsea adaptable with wand cable up to 1000' length
- Signal strength and range exceed competitors' equipment
- Coded signal minimizes false readings



ELECTRONIC PIG TRACKER

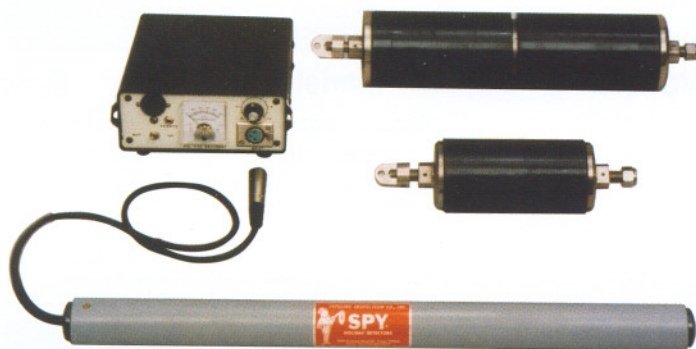
TRANSMITTERS

TRANSMITTER	PT750	PT275	PT107
Line Pipe Size	12" (304.8mm)*& larger	6" (152.4mm)*& larger	2"-6"(50.8-152.4mm)**
Transmitter Length	16" (406.4mm)	9.5" (241.3mm)	6.68" (169.67mm)
Transmitter Diameter	3.275" (83.19mm)	3" (76.2mm)	1.25" (31.75mm)
Maximum Hours of Signal	500 hours	200 hours	60 hours
Batteries Required	8 Type "C" Alkaline	4 Type "AA" Alkaline	1 Lithium 3V
Maximum Pickup Range (free air)	100 ft (30.48m)	60-75 ft (18.3-22.9m)	20-25 ft (6.1-7.6m)
Ground Cover Depth Pickup Range	25-30 ft (7.6-9.1m)	15 ft (4.6m)	8 ft (2.4m)
Maximum Operating Pressure	3000 psi (20684 kPa)	2000 psi (13789 kPa)	1000 psi (6894 kPa)
Minimum pig cavity for mounting	3 1/2" (88.9mm)	3 1/4" (82.55mm)	1 1/2" (38.1mm)
Temperature Range	Minimum -20°F (-29°C) Maximum 180°F (82°C)		
*With 1 1/2 R or greater bends, ** In 3-6 inch pipe with 3R or greater bends, in 2 inch pipe with 5R or greater bends			



PTR WAND AND RECEIVER

The transmitter creates a changing magnetic field which the pick-up wand detects. This signal is amplified and processed by the Pig Tracker Receiver (PTR) with audible and visual output. Powered by two standard 9-volt alkaline batteries for a continuous life of about 50 hours. The pick up wand plugs into the receiver, which is compatible with all Pig Tracker transmitters. A special waterproof wand with up to 1000 foot cable can be used for underwater operations.



Pinpointing