

# FORTRESS PHANTOM<sup>®</sup>

## Pipeline Metal Detector



### Fortress PHANTOM Series Pipeline Metal Detector

Simple  
Operation

Outstanding  
Reliability

Exceptional  
Performance

### The PHANTOM Series Advantage

The unique Fortress Phantom Pipeline Metal Detector utilizes the latest Digital Signal Processing technology to detect and reject ferrous and non-ferrous metals, including stainless steel. With the highest processing power, Phantom systems are renowned for their superior speed, accuracy and ease-of-use.

### Applications

Soups, Sauces, Pastes, Chocolate,  
Jams, Sausage Meats, Juices

### Overview

The Phantom Pipeline Metal Detector is ideally suited for inline inspection of pumped liquids and pastes that are transported through a pipe.

Phantom Pipeline detectors are built rugged to withstand harsh production environments with Stainless Steel construction. Several material options are available for the non-metallic pipe including nylon, rubber, and Teflon for the more demanding high temperature / pressure applications.

An automatic Reject Valve can be incorporated into the system to remove contaminated product from the flow. Additionally, a test ball insertion / retrieval kit is offered as an option, allowing for ease of manual testing.

### Key Technologies

**Core DSP**  
Unparalleled Precision

**UltraSense**  
Ultra Sensitive Detection

**AutoTest**  
Self Diagnostics Testing

**AutoCal**  
System Set-Up in Seconds

## ADVANCED PHANTOM FEATURES

<b>Core DSP</b>	Digital Signal Processing (DSP) technology provides unparalleled precision, speed, and detection results
<b>UltraSense</b>	Maintains high sensitivity levels to detect the smallest metal contaminants
<b>AutoTest</b>	Auto Test ensures consistent performance and saves costs
<b>AutoCal</b>	Automatic Calibration at the touch of a button
<b>Intuitive User Interface</b>	Provides dedicated shortcut keys
<b>Flash RAM</b>	Flash Memory technology prevents information loss
<b>Modular Design</b>	Fewer product parts results in greater reliability

## CONTROL OPTIONS

<b>Integrated Panel</b>	Control Panel is built into the detector
<b>Remote Mounting</b>	Display Panel terminal can be mounted remotely
<b>Multiple Detector Control</b>	One display panel can operate a number of detectors
<b>Portable Display Terminal</b>	Display terminal can be utilized as a portable device

## PIPELINE OPTIONS

<b>Diverter Valve Reject System</b>	Various valve styles available including Ball / Plunger – dependent on application
<b>Reject Confirmation</b>	Confirms proper valve operation upon rejection
<b>Pipe Material</b>	Nylon / Teflon / other food approved plastics – dependent on pressure / temperature of application
<b>Heated Water Jacket</b>	Keeps product at a constant temperature
<b>Connection Types</b>	Sanitary clamp / I-Line / Acme threaded

## SPECIFICATIONS

<b>Construction</b>	Stainless Steel and food approved plastics
<b>Pipe Diameter</b>	1.5" / 2" / 3" / 4" (35 / 50 / 75 / 100 mm)* * custom sizes available upon request
<b>Pressure Range</b>	Typically 10 ~ 100 psi (1~7 bar)** ** greater range available with optional pipe style
<b>Temperature Range</b>	Typically 14°F ~ 210°F (-10°C ~ 100°C)** ** greater range available with optional pipe style
<b>Rating</b>	NEMA 4X / IP69K
<b>Communications</b>	RS485, Optional: Ethernet / Wireless, via CONTACT Software



Make your Phantom metal detector a Critical Control Point with CONTACT Communication Software

**Fortress Technology Inc.**  
51 Grand Marshall Dr,  
Toronto, Ontario  
M1B 5N6, Canada  
Tel: 1-888-220-8737  
sales@fortresstechnology.com

**Fortress Technology Europe**  
7/9 Beaumont Business Ctr.  
Beaumont Close, Banbury  
OX16 1TN UK  
Tel: +44 (0) 1295 256 266  
info@fortresstechnology.co.uk