

## IQ™ MAGNETIC PROPERTIES TOOL - PTX - 2 3/4 IN.



**SKU:** 050-CI275-0001

**Categories:** [Cased Hole Wireline](#), [Electro-Magnetic Thickness](#), [IQ™](#), [PTX](#), [Well Integrity](#)

## PRODUCT DESCRIPTION

The 4-segment receiver of the IQ™ Magnetic Properties Tool (PTX) measures the casing in 90° sections (quadrants). The tool produces a magnetic field that opposes the primary field casing attenuation and phase shift. The magnitude of the measured phase shift is a function of the electrical conductivity, magnetic permeability and metal thickness of the field being measured. Multiple coil spacing and frequencies control the depth of investigation and measure the electromagnetic properties of the casing, that yield a quantitative casing thickness and internal diameter measurements.

### Ratings & Dimensions

<b>Max Temperature</b>	350°F (177°C)
<b>Maximum Pressure</b>	20,000 psi (138 MPa)
<b>Outer Diameter</b>	2.75 in (69.85 mm)
<b>Length</b>	75.0 in (1905.0 mm)
<b>Weight</b>	70.0 lb (31.75 kg)
<b>Csg/Tbg OD</b>	Min: 3.5 in (89.0 mm) Max: 7.0 in (178.0 mm)
<b>Tensile Strength</b>	<b>Tension:</b> 15,000 lb <b>Compression:</b> 15,000 lb
<b>Measure Points</b>	<b>Casing Thickness:</b> 24.5 in (639 mm) <b>Dift'l Thickness:</b> 32.7 in (828 mm) <b>Caliper:</b> 25.0 in (635 mm)

### Borehole Conditions

<b>Tool Positioning</b>	Centralized
<b>Logging Speed</b>	<b>Recommended:</b> 30 ft (9.1 m) /min <b>Max:</b> 60ft (318.2 m) /min

### Hardware Characteristics

<b>Source Type:</b>	Single and multi frequency AC coils
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<b>Sensor Type</b>	Azimuthal thickness gauge with quadrant sensitivity
<b>Connections</b>	Multi-frequency caliper and casing properties
<b>Combinability</b>	3-axis accelerometer for tool orientation
	E-Line 'GO' Type
	GR, CCL, MAC, Radii Bond Tool

Electrical Specification

<b>Current</b>	+ 45 mA @ 130V
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Measurements

<b>Principle</b>	<b>Casing Thickness</b>	<b>Casing Caliper</b>
<b>Range</b>	Remote-field EC	Near-field EC
<b>Azimuthal Resolution</b>	0 to 1.50 in	3.50 to 7.00 in
<b>Vertical Resolution</b>	4 sectors	NA
<b>Sensitivity</b>	1.56 in	1.00 in
<b>Accuracy</b>	1% (2 inch through-hole)	1%
<b>Primary Curves</b>	±1%	
<b>Secondary Curves</b>	Casing & differential thickness	Casing ID
	3-axis accelerometer, internal temperature, casing electrical properties	

Calibration

<b>Primary &amp; Wellsite</b>	Sections of API casing in different weights
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Version Control: 2021.12.16

**On-line specifications are for REFERENCE ONLY and subject to change without notice. DO NOT USE FOR FIELD OPERATIONS.**