

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

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

Borehole Conditions

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

Hardware Characteristics

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

Electrical Specification

Current	+ 45 mA @ 130V
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Measurements

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

Calibration

Primary & Wellsite	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.