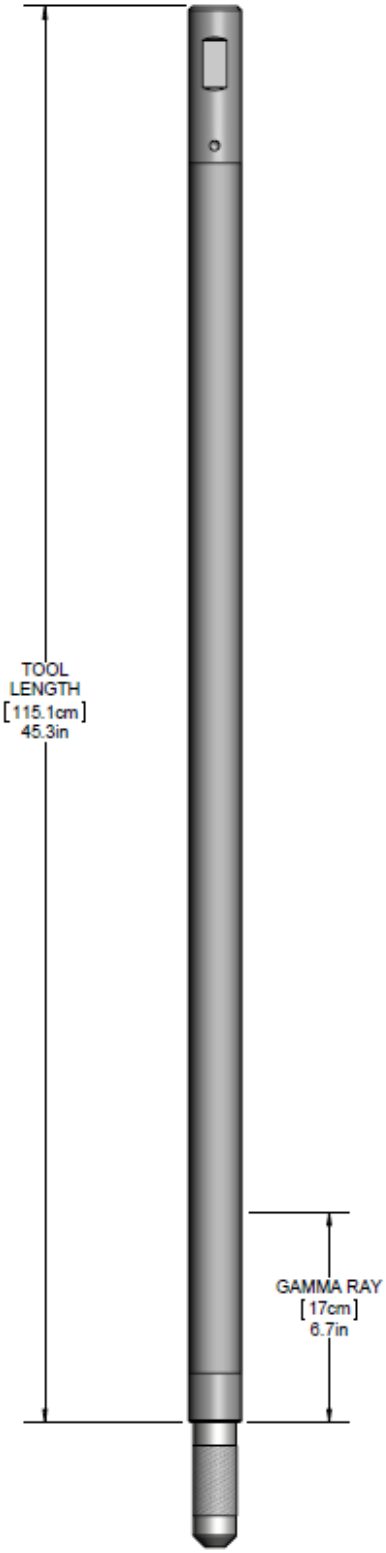
Technical Specification Sheet

Gamma Ray Tool - 1 $^{11}/_{16}$ in.



Ratings & Dimensions

Max Temperature	350°F (177°C) for 4 hours
Maximum Pressure	20,000 psi (138 MPa)
Outer Diameter	1.69 in (42.9 mm)
Length	45.6 in (1158.24 mm)
Weight	20.0 lb (9.09 kg)
Min Csg/Tbg OD	2.38 in (60.5 mm)
Max Csg/Tbg OD	7.0 in (178.0 mm)
Tensile Strength[1]	**Tension:** 65,000 lb **Compression:** 130,000 lb **Torque:**150 ft-lb
Measure Points	6.84 in (173.74 mm)

Borehole Conditions

Logging Speed	**Recommended:** 60 ft/min (18.2 m/min) **Maximum:** 100 ft/min (30.5 m/min) at 0.08 ft (.02 m) sample rate
Tool Positioning	Centralized | Eccentralized

Hardware Characteristics

Sensor Type	Thallium Activated Sodium Iodide Crystal
Transmission Type	Analog Pulse or Telemetry
Data Rate	20 frames / sec @ 20 kHz
Combinability	RBT, CBL, Temp
Connections	GO Top / GO Pin Bottom

Electrical Specifications

Voltage	100V DC

Measurements

Principle	Natural Gamma Radiation
Range	0-10,000 cps
Resolution	6.0 in (152.5 mm)
Accuracy (1SD)	± 5%
Sensitivity	≈ 0.998 cps per API Unit
Primary Curves	GR (API)
Secondary Curves	Head Voltage, Internal Temperature (Telemetry Only)

Calibration

Primary	Houston API Pits
Wellsite Verifier	Thorium Blanket

[1]Strengths apply to new tools at 70°F (21°C) and 0 psi.

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