

Logging Gamma Ray Tools

Titan Division | Instruments



Features

- Tool sizes from 1 in. to 3-1/8 in.
- High working temperatures and pressures: up to 500°F @ 20,000 psi
- H₂S-resistant housing available
- SDS Warrior compatible
- Legacy bond gate, temperature gate, switching and other options are available
- Highest quality crystal and photomultiplier tubes used

Benefits

- Rugged design
- Excellent reliability; long life; dependable service
- Combinable with other Titan Division tools
- Wide variety of service options including borehole temperature, pressure and other configurations
- Cost effective
- Optional construction with Geiger detectors

Hunting's Logging Gamma Ray tools, built using the same shock mounting and vibration protection technology found in our dependable Gamma Perforating tools, offer operators a wide range of dependable service options and flexibility.

Logging Gamma Ray tool detectors are manufactured in-house using the highest quality scintillation crystal material, mechanical components and select Hamamatsu photomultiplier tubes, and Hunting's patented shock protection techniques. This makes the tools ideal for cased hole or open hole logging, and preferred for identifying formation types, using depth control to correlate to open hole logs, and for radioactive mineral, tracer, gamma, temperature and pressure logging.

All tools are calibrated and environmentally tested to their specified rating prior to shipment.

Logging GR Scintillator

	1 in (2.54mm)	1-3/8 in (34.9mm)	1-11/16 in (43 mm)	1-11/16 in (43 mm)	1-11/16 in (43 mm)	1-11/16 in (43 mm)
Part Number	8100-10052SH062-06-00	8100-13752SH062-06-00-A	8100-16852SH075-06-00-A	*8100-168B2SH087-06-00-A	8000-16872SH075-4.5-00	8000-16892SH075-4.5-00
Measurements						
Offset from Bottom						
Center of Crystal (in)[cm]	7.63 [19.39]	10.95 [27.81]	17.41 [44.22]	40.57 [103.04]	12 [30.48]	12 [30.48]
Gamma Detector Size OD - L (in)[cm]	.62 - 3.0 [1.57 - 7.62]	.87 - 6.87 [2.2 - 17.45]	.84 - 6.00 [2.13 - 15.24]	.84 - 6.00 [2.13 - 15.24]	.84 - 4.18 [2.13 - 10.61]	.84 - 4.18 [2.13 - 10.61]
Rec. Logging Speed (ft/min)[m/min]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]
Environmental						
Temperature Rating (°F)[°C]	350 [176]	350 [176]	350 [176]	500 [260]	400 [204]	450 [232.22]
Pressure Rating (psi)[MPa]	15,000 [103.42]	18,000 [124.11]	18,000 [124.11]	18,000 [124.11]	20,000 [138]	20,000 [138]
Material	Carbon Steel	Stainless Steel	Stainless Steel	Stainless Steel	Heat treated4140-NedoxCR+	Heat treated4140-NedoxCR+
Mechanical						
Outside Diameter (in)[cm]	1 [2.54]	1.375 [34.9]	1.687 [4.29]	1.687 [4.29]	1.687 [4.29]	1.687 [4.29]
Length (in)[cm]	55.88 [141.92]	46.38 [117.79]	57.00 [144.78]	57.00 [144.78]	45.87 [116.52]	45.87 [116.52]
Weight (lb)[kg]	10 [4.53]	27 [12.25]	27.5 [12.47]	20 [9.07]	18 [8.16]	18 [8.16]
Max. Tension (lbf)[kN]	16,000 [71]	31,500 [140]	50,000 [222]	50,000 [222]	46,000 [205]	46,000 [205]
Top/Bottom Connection	.8125-16 UN .8125-16 UN	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin
Electrical						
Operating Voltage & Current	120VDC @ 45mA	120VDC @ 45mA	120VDC @ 45mA	120VDC @ 45mA	120VDC @ 50mA	120VDC @ 50mA
With CCL						
Center of CCL (in)[cm] (From Tool Bottom)	42.69 [108.43]	54.7 [138.92]	65.55 [166.5]	65.55 [166.5]	53.05 [134.74]	53.05 [134.74]
Weight (lb)[kg]	10 [4.53]	7.5 [3.40]	10 [4.53]	10 [4.53]	8.8 [3.99]	8.8 [3.99]
Total Current	55mA	55mA	55mA	60mA	55mA	55mA
Total Length(in)[cm]	55.88 [141.92]	67.88 [172.42]	79 [200.66]	79 [200.66]	65.87 [167.31]	65.87 [167.31]

	2-3/4 in (6.98 cm)	2-3/4 in (6.98 cm)	2-3/4 in (6.98 cm)	2-3/4 in (6.98 cm)	3-1/8 in (7.92 cm)	3-1/2 in (8.89 cm)
Part Number	8000-27572SF125-4.5-00	8000-27592SF125-4.5-00	8100-27542SL125-04-00	8100-27572SL125-04-00	8100-31252SL137-03-00	8000-35092SF150-08-PP
Measurements						
Offset from Bottom						
Center of Crystal (in)[cm]	12.5 [31.75]	12.5 [31.75]	17.08 [43.38]	53.13 [134.94]	14.80 [37.58]	16.38 [41.60]
Gamma Detector Size OD - L (in)[cm]	1.25 - 4.5 [3.17 - 11.43]	1.25 - 4.5 [3.17 - 11.43]	1.0 - 4.0 [2.54 - 10.16]	1.0 - 4.0 [2.54 - 10.16]	1.0 - 4.0 [2.54 - 10.16]	1.5 - 8.0 [3.81 - 20.32]
Rec. Logging Speed (ft/min)[m/min]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]	30 - 40 [9.1 - 12.2]
Environmental						
Temperature Rating (°F)[°C]	400 [204]	450 [232.22]	325 [163]	350 [177]	350 [177]	450 [232.22]
Pressure Rating (psi)[MPa]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	30,000 [206.8]
Material	Heat treated4140-NedoxCR+	Heat treated4140-NedoxCR+	Carbon Steel	Carbon Steel	Carbon Steel	Stainless Steel
Mechanical						
Outside Diameter (in)[cm]	2.75 [6.98]	2.75 [6.98]	2.75 [6.98]	2.75 [6.98]	3.12 [7.92]	3.5 [8.89]
Length (in)[cm]	44.15 [112.14]	51.12[129.84]	48.13 [122.24]	48.13 [122.24]	45.88 [116.52]	56.68 [143.96]
Weight (lb)[kg]	47 [21.38]	53[24.04]	48 [21.77]	48 [21.77]	62 [28.12]	54.37 [24.66]
Max. Tension (lbf)[kN]	46,000 [205]	46,000 [205]	71,000 [316]	71,000 [316]	77,000 [343]	46,000 [205]
Top/Bottom Connection	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1-3/16" GO Box 1-3/16" GO Pin	1.37-12 STUB ACME Box 1.37-12 STUB ACME Pin
Electrical						
Operating Voltage & Current	120VDC @ 50mA	120VDC @ 50mA	120VDC @ 45mA	120VDC @ 45mA	120VDC @ 45mA	120VDC @ 45mA
With CCL						
Center of CCL (in)[cm] (From Tool Bottom)	52.4 [133.09]	59.37 [150.8]	58.01 [147.35]	58.01 [147.35]	55.28 [140.41]	64.93 [164.92]
Weight (lb)[kg]	33 [14.96]	33 [14.96]	73.94 [35.98]	73.94 [35.98]	65.50 [29.71]	40.87 [18.53]
Total Current	55mA	55mA	60mA	60mA	60mA	50mA
Total Length(in)[cm]	66.15 [168.021]	73.12 [185.72]	86 [39.01]	86 [39.01]	99 [44.91]	76.99 [195.55]

*Available in 350°F and 450°F

About Hunting's Titan Division

For successful cased hole logging and perforating services, tool reliability, availability, and time line of delivery are essential. Hunting supplies customers worldwide with the right tools to get the job done. Our product lines include state of the art, high quality wireline and tubing conveyed perforating (TCP) gun systems, hardware and accessories, shaped charges, and electronic logging tools.