

Perforating Gamma Gun Titan Division | Instruments



Features

- Compatible with all types of detonators, igniters and firing modules and with Hunting EBFire[®] and ControlFire[®] perforating switches
- Durable CCL for repetitive perforating operations
- Integrated shock sub for additional tool protection
- Hardened CCLs constructed with Alnico 5 magnets
- Patented shock protection technology allows for construction of gamma perforators with larger, more sensitive scintillation detectors
- Designed to operate at +50VDC
- Available in both negative fire and dual fire configurations
- Sizes range from 1-11/16 in. (42.9 mm) to 3-1/8 in. (79.4 mm) OD with a variety of configurable options
- Construction with Geiger-Muller detectors optional

Benefits

- Reliable operation in extreme shock and impact environments
- Higher logging speed using larger scintillation detector
- Optimized CCL signal performance
- Reduced maintenance cost due to high MTBF
- Improved tool reliability in underbalance and overbalance completion conditions
- Superior log quality, higher logging speeds and easier stratigraphic correlation for depth control
- Packaged scintillation perforating detector reliability exceeds that found in Geiger-Muller detector technology
- Flexibility with a range of services

Hunting's perforating gamma ray tools provide a rugged and reliable means of stratigraphic correlation depth control for completion operations. They are also trustworthy tools for balanced, underbalanced and overbalanced completion operations, for conducting select fire or addressable perforating gun operations or setting plugs and packers.

Perforating GR-CCL Specifications - Negative Fire - Scintillation Detector

Part Number	1-11/16 in. (43 mm) Stand-alone	2-3/4 in. (70 mm) Stand-alone	3-1/8 in. (79 mm) Stand-alone			
Standard	8100-16857SC084-06-06-#	8100-27557SC100-04-*1	8100-31257SC100-04-*1-A			
High Temperature	8100-168B7SF070-06-06-#	8100-275B7SF100-04-*1	8100-312B7SF100-04-*1-A			
Measurements						
Offset From Bottom Shoulder (in.)[cm] {Hi Temp} CCL ● G	62.4 [158.5] • 19.6 [49.9] {68.6 [174.1] • 44.5 [113.1}	54.4 [138.2] • 18.8 [47.8] {67.3 [170.9] • 41.8 [106.2]}	50.5 [128.3] • 16.0 [40.6] {66.3 [168.3] • 41.4 [105.1]}			
Environmental						
Standard Temperature Rating (°F)[°C]		350 [177]				
High Temperature Rating (°F)[°C]		500 [260]				
Pressure Rating (psi)[MPa]	18,000 [124]	20,000 [138]	20,000 [138]			
Material	Carbon Steel	Zinc Alloy	Carbon Steel			
Mechanical						
Outside Diameter (in.)[mm]	1.69 [42.9]	2.75 [69.9]	3.13 [79.4]			
Length (ft)[m] {Hi Temp}	6.32 [1.93] {6.83 [2.08]}	5.86 [1.79] {6.93 [2.11]}	5.05 [1.54] {6.37 [1.94]}			
Weight (lb)[kg] {Hi Temp}	28 [13] {36 [16]}	80 [36] {85 [39]}	73 [33] {100 [45}			
Max. Tension (lbf)[kN]		65,000 [289]				
Top/Bottom Connection	1-3/16 in. GO Box/Box	1-3/16 in. GO Box/GO Quick Change Box	1-3/16 in. GO Box/GO Quick Change Box			
Electrical						
Operating Voltage & Current		+50 VDC @ 60±5 mA				
Shooting Polarity		Negative				

* Use "0" for plain upper head; "1" for upper head connection 2-in. fishing neck

Use "A" for stainless steel housing; blank for normal steel housing (2-3/4 in. tools all have stainless steel housing)

Geiger-Müller Detector - Negative Fire

	1-3/8 in. (35 mm) Stand-alone	1-11/16 in. (43 mm) Stand-alone	2-3/4 in. (70 mm) Stand-alone	3-1/8 in. (79 mm) Stand-alone	
Part Number	8100-13777GM100-12-06-#	8100-16877GM137-18-06-#	8100-27577GM100-18-*1	8100-31277GM100-12-*1-A	
Measurements					
Offset From Bottom Shoulder (in.)[cm] CCL • GR	48.4 [122.9] • 15.2 [38.6]	62.4 [158.6] • 21.0 [53.3]	54.4 [138.1] • 17.5 [44.3]	50.4 [1.28] • 17.7 [45.0]	
Environmental					
Temperature Rating (°F)[°C] 400 [204]					
Pressure Rating (psi)[MPa]	20,000 [138]	18,000 [124]	20,000 [138]	20,000 [138]	
Material	Carbon Steel	Carbon Steel	Zinc Alloy	Stainless Steel	
Mechanical					
Outside Diameter (in.)[mm]	1.38 [34.9]	1.69 [42.9]	2.75 [69.9]	3.13 [79.4]	
Length (ft)[m]	5.13 [1.56]	6.32 [1.93]	5.86 [1.79]	5.05 [1.54]	
Weight (lb)[kg]	17 [8]	28 [13]	85 [39]	90 [41]	
Max. Tension (lbf)[kN]	65,000 [289]				
Top Connection			1-3/16 in. GO Box/GO Quick	1-3/16 in. GO Box/GO Quick	
Bottom Connection			Change Box	Change Box	
Electrical					
Operating Voltage & Current	+50 VDC @ 60±5 mA				
Shooting Polarity	Negative				

* Use "0" for plain upper head; "1" for upper head connection 2-in. fishing neck # Use "A" for stainless steel housing; blank for normal steel housing (2-3/4 in. tools all have stainless steel housing)

Perforating GR-CCL Specifications - Dual Fire - Scintillation Detector

	1-11/16 in. (43 mm)		2-3/4 in. (70 mm)		3-1/8 in. (79 mm)	
Part Number	Stand-alone	With Integrated Shock Sub	Stand-alone	With Integrated Shock Sub	Stand-alone	With Integrated Shock Sub
Standard	8100-1685FSC084-06-06	8100-1685FSC084-06-0C	8100-2755FSC100-04-*1	8100-2755FSC100-04-0C	8100-3125FSC100-04-11	8100-3125FSC100-04-0C
High Temperature	8100-168BFSF070-06-06	8100-168BFSF070-06-0C	8100-275BFSF100-04-*1	8100-275BFSF100-04-0C	-	8100-312BFSF100-04-0C
Measurements						
Offset From Bottom Shoulder (in.)[cm] CCL • GR	62.4 [158.5] • 15.6 [39.5] {68.6 [174.1] • 44.5 [113.1]}	80.7 [119.1] • 33.8 [85.9] {101.1 [256.7] • 77.0 [195.6]}	62.9 [159.8] • 18.9 [47.9] {67.3 [170.9] • 41.8 [106.2]}	84.7 [215.0] • 40.7 [103.3] {89.1 [226.3] • 63.7 [161.7]}	66.3 [168.4] • 41.4 [105.1]	88.3 [2.24] • 63.4 [161.0]
Environmental						
Standard Temperature Rating (°F)[°C]		350 [177]				
High Temperature Rating (°F)[°C]	500 [260]				-	500 [260]
Pressure Rating (psi)[MPa]	18,000 [124]	18,000 [124]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]
Material	Stainless Steel					
Mechanical						
Outside Diameter (in.)[mm]	1.69 [42.9]	1.69 [42.9]	2.75 [69.9]	2.75 [69.9]	3.13 [79.4]	3.13 [79.4]
Length (ft)[m] {Hi Temp}	6.32 [1.93] {6.83 [2.08]}	7.83 [2.39] {8.35 [2.55]}	6.57 [2.00] {6.93 [2.11]}	8.38 [2.56] {8.75 [2.67]}	6.37 [1.94]	8.20 [2.50] {8.20 {2.50]}
Weight (lb)[kg] {Hi Temp}	30 [14] {38 [17]}	43 [20] {43 [20]}	58 [26] {73 [33]}	88 [40] {102 [46]}	90 [41]	130 [59] {130 [59]}
Max. Tension (lbf)[kN]	65,000 [289]					
Top Connection	1-3/16 in. GO Box					
Bottom Connection	1-3/16 in. GO Box GO Quick Change Box					
Electrical						
Operating Voltage & Current	+50 VDC @ 50±5 mA					
Shooting Polarity		Positive and Negative				

* Use "0" for plain upper head; "1" for upper head connection 2-in. fishing neck

Geiger-Müller Detector - Dual Fire

	1-11/16 in. (43 mm)		2-3/4 in. (70 mm)		3-1/8 in. (79 mm)	
	Stand-alone	With Integrated Shock Sub	Stand-alone	With Integrated Shock Sub	Stand-alone	
Part Number	8100-1687FGM137-18-06	8100-1687FGM137-18-0C	8100-2757FGM100-18-*1	8100-2757FGM137-18-0C	8100-3127FGM100-12-*1-A	
Measurements						
Offset From Bottom Shoulder (in.)[cm] CCL • GR	70.6 [179.2] • 21.0 [53.3]	88.8 [225.6] • 39.2 [99.6]	62.9 [159.8] • 20.3 [51.5]	84.7 [215.2] • 42.1 [107.0]	50.4 [128.0] • 17.7 [45.0]	
Environmental						
Temperature Rating (°F)[°C]			400 [204]			
Pressure Rating (psi)[MPa]	18,000 [124]		20,000 [138]			
Material	Stainless Steel					
Mechanical						
Outside Diameter (in.)[mm]	1.69 [42.9]	1.69 [42.9]	2.75 [69.9]	2.75 [69.9]	3.13 [79.4]	
Length (ft)[m]	7.00 [2.13]	8.52 [2.60]	5.86 [1.79]	8.39 [2.56]	5.05 [1.54]	
Weight (lb)[kg]	31 [14]	43 [20]	85 [23]	80 [36]	90 [41]	
Max. Tension (lbf)[kN]	65,000 [289]					
Top Connection	1-3/16 in. GO Box					
Bottom Connection	1-3/16 ir	I. GO Box	GO Quick Change Box			
Electrical						
Operating Voltage & Current	+50 VDC @ 50±5 mA					
Shooting Polarity	Positive and Negative					

* Use "0" for plain upper head; "1" for upper head connection 2-in. fishing neck

Optional Adapters

O.D. (in.)[mm]	Assembly Part Number	Contact Kit	Upper Head Adapter
2-3/4 [70]	8130-275-110	8100-000-012	1-3/16 in12 GO Box with 2 in6 Acme fishing neck thread
	0257-200-003	-	1-3/16 in12 GO Box with 2 in6 Acme fishing neck thread
3-1/8 [79]	0257-200-007	-	1-5/8 in6 Acme Box
	3890-000-130	5401-000-032	3-1/8 in. O.D. Sinker Bar Assembly
0.0/4 [70]	8100-275-020	8100-275-022	1-3/16 in12 GO Pin
2-3/4 [70]	8100-275-250	8100-312-022	1-3/16 in12 GO Box
0.4/0/701	8100-312-240	8100-312-242	1-3/16 in12 GO Pin
3-1/8 [79]	8100-312-250	8100-312-252	1-3/16 in12 GO Box



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