

# GRT-20

## 2-3/4" Gamma Ray Pulse Tool



### Description

The DSS 2 3/4" Gamma Ray pulse Tool (GRT) measures the gamma radiation level of the formation derived from natural isotopes. It can be used as a depth correlation device between cased and open holes. This tool is comprised of a Sodium Iodide scintillation crystal and photomultiplier tube which demonstrate high sensitivity and resolution. The GRT-01 outputs 25  $\mu$ s pulses in response to gamma radiation within the well.

### Applications

- Gamma radiation measurements.
- Depth correlation.
- Reservoir delineation.

### Features

- Rated for High-temperature and high-pressure environments.
- Scintillation crystal combined with a photomultiplier.
- Compatible with most surface systems.
- Runs on all standard wirelines.
- Power and telemetry are connected from top to bottom of the tool.
- Can be run by itself, or combined with most analog tools.
- Electronic design verified for 1 hour operation at 415°F to ensure reliability.
- Easy to service and maintain.

### Specifications

<b>Tool Operating Voltage</b>	<b>90-150 VDC</b>	<b>Tool Length (make-up)</b>	<b>66.68 cm (26.25 in)</b>
<b>Tool Operating Current</b>	<b>20-25 mA</b>	<b>Tool Length (shipping)</b>	<b>74.93 cm (29.5 in)</b>
<b>Output Pulses Amplitude</b>	<b>Negative 7.5 VDC</b>	<b>Tool Weight</b>	<b>11.6 Kg (28 Lb)</b>
<b>Output Pulses Width</b>	<b>25 <math>\mu</math>S</b>	<b>Measurement Point from Top of Tool</b>	<b>43.35 cm (17.07 in)</b>
<b>Max. Pressure</b>	<b>172.4 Mpa (25,000 PSI)</b>	<b>Borehole Fluids</b>	<b>Oil - Fresh Water - Brine</b>
<b>Max. Temperature</b>	<b>204°C (400°F)</b>	<b>Top End Connector</b>	<b>Contact Socket Go Female</b>
<b>Tool Diameter - OD</b>	<b>69.85 mm(2-3/4 in)</b>	<b>Bottom End Connector</b>	<b>Contact Pin Go Male</b>



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