



REMOTE DISPLAY

- Certified for Class 1 Div 2 (Pending)
- Compatible with many MWD Systems
- Large data display LCDs
- Viewable in direct sunlight and dim evening lighting
- Adjustable LED brightness
- Compact rugged construction
- Four Tool Face History Indicators with separate Gravity Tool Face and Magnetic Tool Face numerical displays
- Inclination and Azimuth display
- Two programmable display options
- -30°C to 75°C operating range
- Weight: approximately 11 lbs.
- Size: 8 X 13 X 2.5"



CABLE ASSEMBLES

- Positive Locking Connectors
- Ruggedized
- Shielded
- Polyurethane Molding

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Portable Touch Screen Tablet PC

TOUCH SCREEN DISPLAYS

- Certified Intrinsically Safe (Class 1 Division 2)
- Compatible with all Surface Gear Receivers
- Bright color LCD sunlight readable display
- Resistive touch screen
- Intuitive operator interface navigation
- Multiple display screens available for the operator to view
- Communicates with BT receivers via wired or wireless Ethernet
- Rugged impact resistant construction
- Compact form factor for easily portability and setup
- Can be used in addition to multiple other remote displays without and interference



**ELECTRONICS MODULE -
175°C**

**DPS
DOWNHOLE POWER SUPPLY**

- Power Efficient DPS extends battery life and operating temperature
- Improved manufacturing techniques aid in improved reliability
- Fully encapsulated shock and damage isolation package
- Operating Temperature: -40°C to 175°C
- Designed for use with high current pulsers
- High Input Battery Voltage Ranges, improves the life of the unit:
 - > ± OM power: 18V DC to 40V DC
- Continuous power supplied to processor even at low battery voltage levels:
 - > +5 for processor: 6V DC to 40V DC
 - > Insures proper battery switch-over in case of sudden drop in voltage form battery 1
 - > Provides proper background load to the backup battery, ensuring optimum performance
- Meets or exceeds industry standard environmental specifications:
 - > **Shock:** 1000g, 0.5msec
 - > **Vibration:** 20g RMS 30-1000 Hz Random

MWD TOOL

- Directional MWD Drilling Package
- Directional MWD with GAMMA Drilling Package
- **Directional MWD with GAMMA Drilling & Real Time Logging Package**
 - > Our real time gamma logging allow your engineers, geologist and other authorized personnel to view, download and print gamma ray logs while drilling on a 24/7 basis via a password protected website.

INDUSTRY COMPATIBILITY

The Electronics Module is design based on industry standard technologies that have proven themselves in the field for decades. The EM is a seamlessly interchangeable drop-in replacement for any other QDT style electronics module. This means all of the module's joints, bays, pin connections, and communications protocols meet the standard requirements.

ENERGY EFFICIENCY

The Electronics Module offers the combined energy-savings of the DPU and DPS to provide longer battery life and proven reliability Downhole.

SOLIDLY ENGINEERED

The control center for the downhole tool, responsible for data acquisition, processing, and transmission. The EM integrates Bench Tree's intelligent Downhole Processing Unit (DPU), the efficient Downhole Power Supply (DPS), with the durable Strongback Chassis into a thoroughly tested and ruggedized unit.



**PULSER DRIVER CONTROLLER &
FLOW SWITCH BOARD**