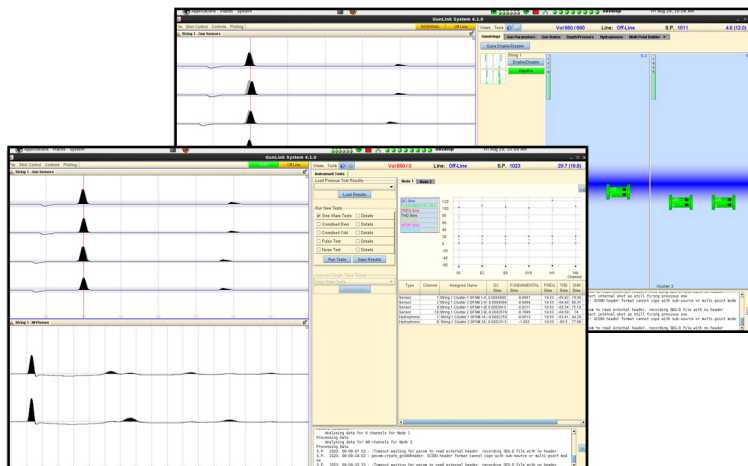




The GunLink Test Unit, sometimes referred to as an MRM (Mobile Rack Mounted) is a portable system designed for quick and easy onboard testing of individual GFSM and TEM.



The unit provides onboard testing of individual Gun Fire and Sensor Module (GFSM) units and Termination Electronic Modules (TEMs). It's capable of determining whether they are working correctly either before, in the case of spares, or after being attached to the array once a fault has been reported.

- Test of individual GFSM and TEM units.
- Testing of the GFSM can identify which particular block has failed and whether the GFM or GPM subcomponents have a problem.
- Units are contained within two shock mounted racks. Each rack is packaged in a portable flight case. The two flight cases can be separated for ease of handling.
- Designed for use in the gun shack or instrument room onboard a seismic vessel.
- User Interface allows for simple operator control as well as clear indication of a defective TEM or GFSM under test.
- Testing of a TEM will include status of functional blocks within, and identify failures.
- A separate cable pack allows for either 16-Way AG, or 24-Way GISMA input options.

The unit consists of a Host Computer running GunLink Software Version 3.X.X or Version 4.X as appropriate, Network Switch, Timing Control Unit (TCU), two Power Supply Modules, a rack mounted TEM replicator box and a rack mounted GFSM replicator box. One GFSM is required for testing a GFSM and two for testing a TEM. The GFSM replicator box therefore incorporates four GFM modules and two GPM modules for this purpose. The TEM replicator box - which tests GFSMs - houses the dry end media converter. The keyboard is rack mounted and slides out on runners. The software has been designed to be both intuitive and simple to use.

The cable pack comprises two (AG or GISMA) cables each 10m length to connect the GFSMs to the test unit, one 1m test unit interconnect cable, a 10m TEM power cable, four MFM-ST cables for TEM comms, Solenoid load cables for testing the GFSMs and a 10m 4x4 ST-ST patch cable. Lockable rear doors house cooling fans and a cut out for cable entry/exit.

The test equipment is housed in two portable, robust, shock mounted, 19" racks with a plinth with casters on the lower rack for portability. It will have the capability of being tied down using shackles and fixed to the deck. The two racks will be housed in interlocking flight cases, which are able to be mounted to a plinth if required.

For further information please contact
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SEAMAP GUNLINK TEST EQUIPMENT



PORTABLE GFSM AND TEM TEST CAPABILITY

Specifications:

Safety	300VDC and mains voltages are present inside the unit and will require fusing of each individual rack mounted module. In addition, any rack-mounted metalwork must be connected to the vessel's earthing point when the unit is operated. An emergency stop cable assembly is supplied to isolate the power to the 300V output.
Electrical Input	110 to 230Vac @ 50/60Hz Typical power requirement 0.4kW Maximum power 0.7kW
Electrical Output	26VDC @ 50W and 300VDC @ 250W
Packaging	The unit is housed in a shock mounted 19" rack.
Software	GunLink Software Version 3.X.X or Version 4.X as appropriate
Limitations	Use outside on deck will not be permitted. The test unit will not be able to directly identify cabling/wiring errors, shorts, or no-connects. The user will need to make direct measurements to identify such faults.
Environmental	Temperature: 10-40°C Operational. 5-45°C Storage Humidity: 85% Non-Condensing
Connectivity	16-Way AG or 24-Way GISMA Input / Output for GFSM under test TEM Power, PDM connector from 300V Supply TEM Fiber Optic MFM to ST Connectors
Interface Requirements for GL4K Test Unit p/n: 02-94-2115	To interface to the units under test, the following connector cables will be required: - AG Cable Assembly (part no. 02-94-2116) OR alternatively; - GISMA Cable Assembly (part no. 02-94-2117)

Dimensions and Weight:

	Height	Depth	Width	Weight
Upper Unit Complete In Flight Case	480 mm	980 mm	585 mm	85 Kg
Keyboard & Monitor	1U			
Host Computer	3U			
Power Supply (x2)	1U			
Lower Unit Complete In Flight Case	480 mm	980 mm	585 mm	65 Kg
TCU	2U			
TEM Replicator	2U			
GFSM Replicator	2U			
Plinth & Base With Casters	150 mm	980 mm	585 mm	25 Kg

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