

Repeaters / Displays & Visual Information Systems

About AGI

AGI is backed by over 30 years of experience in the design, development, manufacture and installation of ship borne systems and provides full Integrated Logistic Support services, training, installation and documentation.

AGI is accredited to International Quality Standards ISO 9001/BS5750 Part 1 and Tick-IT software procedures.



Aeronautical & General
Instruments Ltd

Fleets Point, Willis Way, Poole, Dorset, BH15 3SS, England
Tel: +44(0)1202 685661, Fax: +44(0)1202 685670, E-mail: sales@agilt.co.uk, Website: www.agilt.co.uk



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Multi-Function Colour Repeater

The Multifunction Colour Repeater (MFCR) provides a high resolution colour display suitable for complex graphics data, with designs available for both military and civil applications.

The MFCR is available in three sizes, 8.4, 10.4 and 15 inch industry standards which are identical except for display size, metalwork and backlight, thus providing for a high level of commonality of spares.

The MFCR is configurable during installation to operate with either a fixed display (single page) of data or a multiple page display where a number of preset 'pages' of data are available for selection.

This flexibility allows a common repeater to fulfil different roles at different positions on board ship or other vehicle. Hence the numbers of repeaters required is greatly reduced thus also reducing the spares requirements. A single MFCR is able to replace up to 20 traditional dedicated repeaters, leading to major cost savings.

Whilst a range of standard pages are available from AGI, a customisation service is also available, where pages may be designed with customer input to meet a particular requirement.

Mechanical Interfaces:

- Panel Mounting
- Bulkhead Mounting
- 8.4, 10.4 & 15 Inch Versions

Electrical Interfaces:

- NMEA Data
- RS422
- RS485
- Ethernet
- Custom Interface

Standard Features:

- Zero Maintenance
- Low Ownership Costs
- High Brightness
- Built in Test
- Interactive
- Multiple Page Displays
- Mil.Std / COTS

Tape Heading Repeater

The AGI Tape Heading Repeater is based on the moving tape principle. A large format array of light emitting diodes (LEDs) is used to simulate a moving compass card image past a fixed pointer. This type of display, with over 1500 pixels, provides excellent rate of change data to the user in a clear, unambiguous format. The display also includes a separate digital representation of the data, using 4 seven-segment characters. A feature of the unit is the inclusion of audible rate of turn.

A master/slave repeater can be used to minimise system cost on platforms which have synchro heading data. Both master and slave serial repeaters have a dual input capability for interfacing to one or two separate sources of gyro data. The user controls allow the display of either gyro 1 or gyro 2 data.

Mechanical Interfaces:

- Panel Mounting
- Bulkhead Mounting
- VCS

Electrical Interfaces:

- NMEA Data
- Stepper Motor
- RS422
- Synchro
- Custom Interface

Standard Features:

- Zero Maintenance
- High Contrast
- Mil.Std / COTS
- Dual Gyro Input
- Audible Rate of Turn

LCD Multi-Function Large Digit Repeater

High reliability transfective liquid crystal displays with fully dimmable backlighting ensuring maximum readability in a wide range of ambient conditions, up to and including bright sunlight.

All LCD repeater variants manufactured by AGI use common hardware. The displays are configured to suit the particular application by adjustment of firmware and the addition of an alternative printed scale.

The data may be displayed in either digital only or both analogue and digital formats, analogue providing 'at a glance' trend information, with the digital providing precise information.

Mechanical Interfaces:

- Din Panel Mounting
- Bulkhead Mounting
- VCS

Electrical Interfaces:

- NMEA Data
- RS422 (Dual Redundant)
- Synchro
- Custom Interface

Standard Features:

- Zero Maintenance
- Low Ownership Costs
- High Brightness
- Mil.Std / COTS

- Heading
- Pitch
- Speed
- Met Data
- GPS
- etc.



Repeaters & Visual Information Systems

The AGI solid state repeater range has been developed to provide a remote display of a wide range of information parameters.

Initially designed and manufactured to Military Standards for use in the defence environment, COTS versions are also available for civil applications and have a proven ability to withstand the rigours of in-service life, being in widespread use worldwide.

The fully solid state design ensures the units are free from the inherent disadvantages of electromechanical devices, making them particularly suitable where ruggedness and reliability are a major criteria.

Available Input options include digital RS422, NMEA and in some instances Synchro (400 or 60Hz) to suit a majority of applications. Where customisation to suit a particular interface is required AGI have a range of interface protocols readily available or can offer a complete design service.

Alternative daisy chain wiring to minimise installation costs.