



Excellence in
Naval Engineering

MFCR

Multi-Function Colour Repeater

OVER 2000 UNITS IN SERVICE WORLDWIDE



Robust solid state displays for military use

Dimmable

to zero brightness

Flexible

multi-page display

Fanless

operation

Custom

data pages available

The Multi-Function Colour Repeater (MFCR) range is a military specification solid state multi-function display range that contains pre-installed data pages to graphically display log, wind, meteorological and own ship's data that is being measured by the ship's on-board sensors.

The multiple page feature of the display is particularly advantageous as it negates the need for separate dedicated repeaters (up to 20) to display other parameters being measured, offering both initial and through life cost saving benefits.

Built tough to endure the worst

Free from the inherent disadvantages of electromechanical devices, the AGI MFCR are particularly suitable where ruggedness and reliability are a major criteria.

MULTI-FUNCTION COLOUR REPEATERS				
MECHANICAL	Sizes	15"	10.4"	8.4"
	Mounting	Panel mount or bulkhead mounting bracket	Panel mount or bulkhead mounting bracket	Bulkhead mounted bracket (Portrait) or panel mount (Landscape)
	Dimensions	457mm (w) x 292mm (h) x 122mm (d) (panel mount version)	306mm (w) x 276mm (h) x 122mm (d) (panel mount version)	187mm (w) x 282mm (h) x 155mm (d) (including mounting bracket)
	Weight	11.0kg approx. (excluding mounting brackets)	8.0kg approx (excluding mounting brackets)	8.5kg approx (including mounting brackets)
	Enclosure	Painted aluminium enclosure		
DISPLAY	Type	15" TFT VGA display	10.4" TFT VGA display	8.4" TFT VGA display
	Resolution	1024 x 768	640 x 480	640 x 480
	Viewing Angles	80/80/80/80 (left/up/right/down)	80/80/80/80 (left/up/right/down)	80/80/80/80 (left/up/right/down)
	Response Time	5ms (typical)	15ms (typical)	15ms (typical)
	Contrast Ratio	600:1	900:1	1000:1
	Brightness	600 cd/m2	900 cd/m2	800 cd/m2
	Dimming	Dimmable to zero brightness		
COMPUTER	CPU	AMD LX 800	STPC Atlas processor 133MHz	STPC Atlas processor 133MHz
	RAM	Minimum 128MB SODIMM		
	Storage	Compact flash card		
	Operating System	Embedded Linux		
	Application	AGI proprietary S/W		
POWER	Supply Voltage	115/230 VAC (factory set) 50/60 Hz		
ENVIRONMENTAL	EMC	Mil Standard 461E (Below decks)	Mil Standard 461D (Above decks)	Mil Standard 461E (Above decks)
	Shock	MIL S 901D Grade A		
	Vibration	Mil Std 167-1		
	Temperature & Humidity	Mil Std 810E	NES 1004	Mil Std 810E
	Ingress Protection	IP 54 Front panel, IP 51 all other areas	Standard IP 54 Front panel, IP 51 all other areas, watertight variant available	IP 66
	NVG Compatibility	Optional Mil Std 3009B		
STORAGE & OPERATIONAL TEMPERATURE	Storage Temperature	-30°C to +70°C	-30°C to +65°C	-30°C to +70°C
	Operational Temperature	-20°C to +50°C	-20°C to +45°C	-20°C to +50°C
INPUT / OUTPUT CONNECTIONS	Standard	4 x RS422 channels (2 x Bi-directional Comms, Opto-isolated)	4 x RS422 channels (2 x Bi-directional Comms, Opto-isolated)	2 x RS422 channels (1 x Bi-directional Comms, Opto-isolated)
	Optional	2 x 100BaseFx Ethernet (ST connectors)	1 x 10/100 BaseTx Ethernet (RJ45 inside 38999 series connector)	1 x 100 BaseFX Ethernet (ST connectors)

For more information or to enquire about our **bespoke design services** please get in touch:

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