

FM10 FM Radio Demodulator Unit

The FM10 is a robust stereo FM radio demodulator designed to receive signals distributed by a local area network.



FM10 can be supplied with integral power amplification to enable program broadcast via a separate loudspeaker array, for example where reception is required in public areas, or with headset socket to enable private listening in a cabin location. The unit is designed to survive the rigours of an offshore installation and is packaged in a rugged steel enclosure, operator controls are "tactile" push button types which are flush fitted to the fascia to eliminate possibility of vandalism. FM10 can be supplied in a choice of two enclosures V type, which enables the option of fluorescent reading light to be incorporated and H type used where height is restricted.

The unit facilitates preset selection of up to ten radio channels, with the entire VHF FM broadcast radio band coverage 88 MHz to 108 MHz being accessible by an up / down tuning control . A multifunctional LCD read-out is fitted which displays selected radio channel frequency, time keeping and alarm clock settings. Connections to the unit are via industry standard plug / socket arrangement located on a recessed rear panel.

TV & Radio socket option, two 3.5 mm jack sockets enable a headset to be connected, one assigned to FM10 radio reception the other is pre-wired to a DIN socket located on the rear termination panel. Where required local isolated TV audio can be routed to this connector.

Cabin light switch, with this option fitted the user can control the local light fitting, one metre cable tail extends the unfused switch contacts to the external lighting circuit. Reading light, an optional fluorescent PL9 energy saver tube / diffuser assembly and on / off switch can be fitted.

Key Features

- ✦ Rugged design - low through life cost
- ✦ Synthesised radio tuning head - eliminates routine retuning, reduces maintenance costs.
- ✦ Integral alarm clock as standard
- ✦ Flush fit controls - reduces routine maintenance.

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Electrical Specification

Coverage	88 - 108 MHz
Heat emission	5 Watts
Consumption	20 VA
Power supply input	110 - 254 V A.C 50/60 Hz
V.H.F input	Industry standard 'F' connector
A.C mains input	Standard I.E.E connector with integral 2A A/S fuse
Audio power output	1 Watt
Total Harmonic distortion	1%
Intermediate frequency	10.7 MHz, If rejection is 60 dB
Sensitivity	20 dBuV
Image rejection	24 dB
Stereo separation	25 dB
Signal to noise ratio	50 dB
LCD	Alarm, Time & Radio Frequency

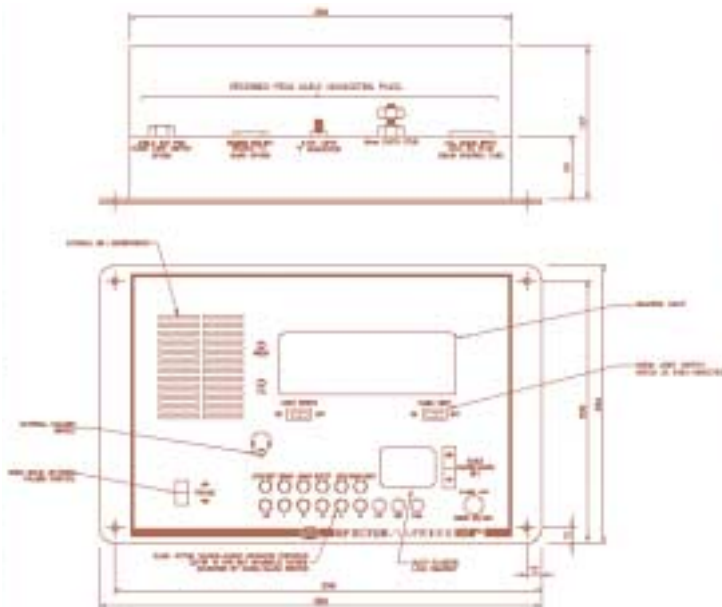
Mechanical Specification

Material	1 & 2 mm Alloy Fascia
	1 mm mild steel Back Box
Finish	Anodised Fascia
	Zinc & passivated Back Box
Legends	Silkscreen printed, blue to BS381C : 175 or RAL 5015
Weight	FM10V Approx 3kg
	FM10H Approx 2kg
Cut out	FM10V 304mm x 194mm
	FM10H 424mm x 94mm



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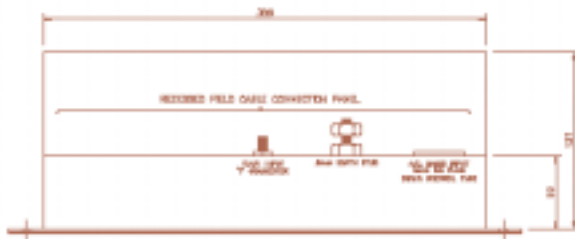
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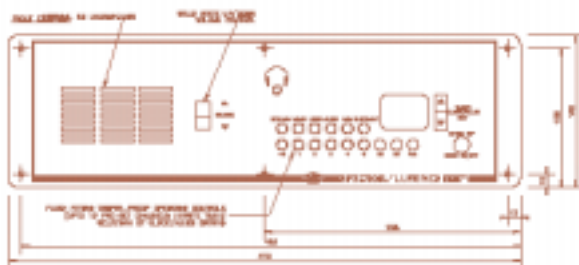
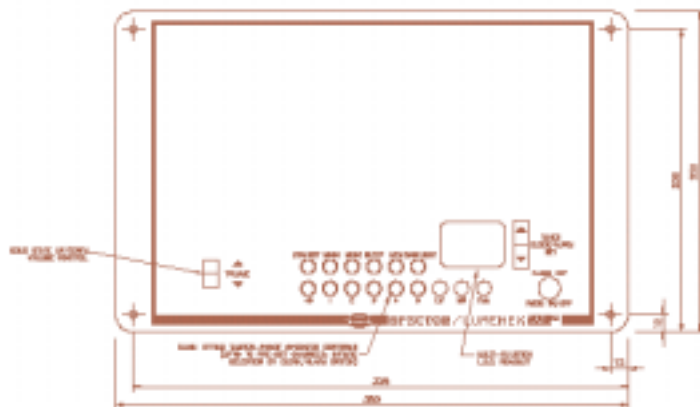
FM10V This drawing shows a fully loaded bedhead / cabin unit.

FM10V VARIATIONS

FM10V VARIATION	TV & RADIO SOCKET	CABIN LIGHT SWITCH	READING LIGHT	HEADSET SOCKET
FM10V-01	X	X	X	✓
FM10V-02	X	X	✓	✓
FM10V-03	X	✓	X	✓
FM10V-04	X	✓	✓	✓
FM10V-05	✓	X	X	X
FM10V-06	✓	✓	X	X
FM10V-07	✓	X	✓	X
FM10V-08	✓	✓	✓	X



FM10VP This drawing shows a public area unit. Broadcast loudspeaker amplifiers are fitted. Which drive extension low impedance loudspeaker/s up to 10 watts. Minimum load impedance 3 ohms.



FM10H This drawing shows a restricted height unit. Cabin light switch, TV socket outlet, Reading light are not available on this variant.