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DANCOM
COMMUNICATION EQUIPMENT

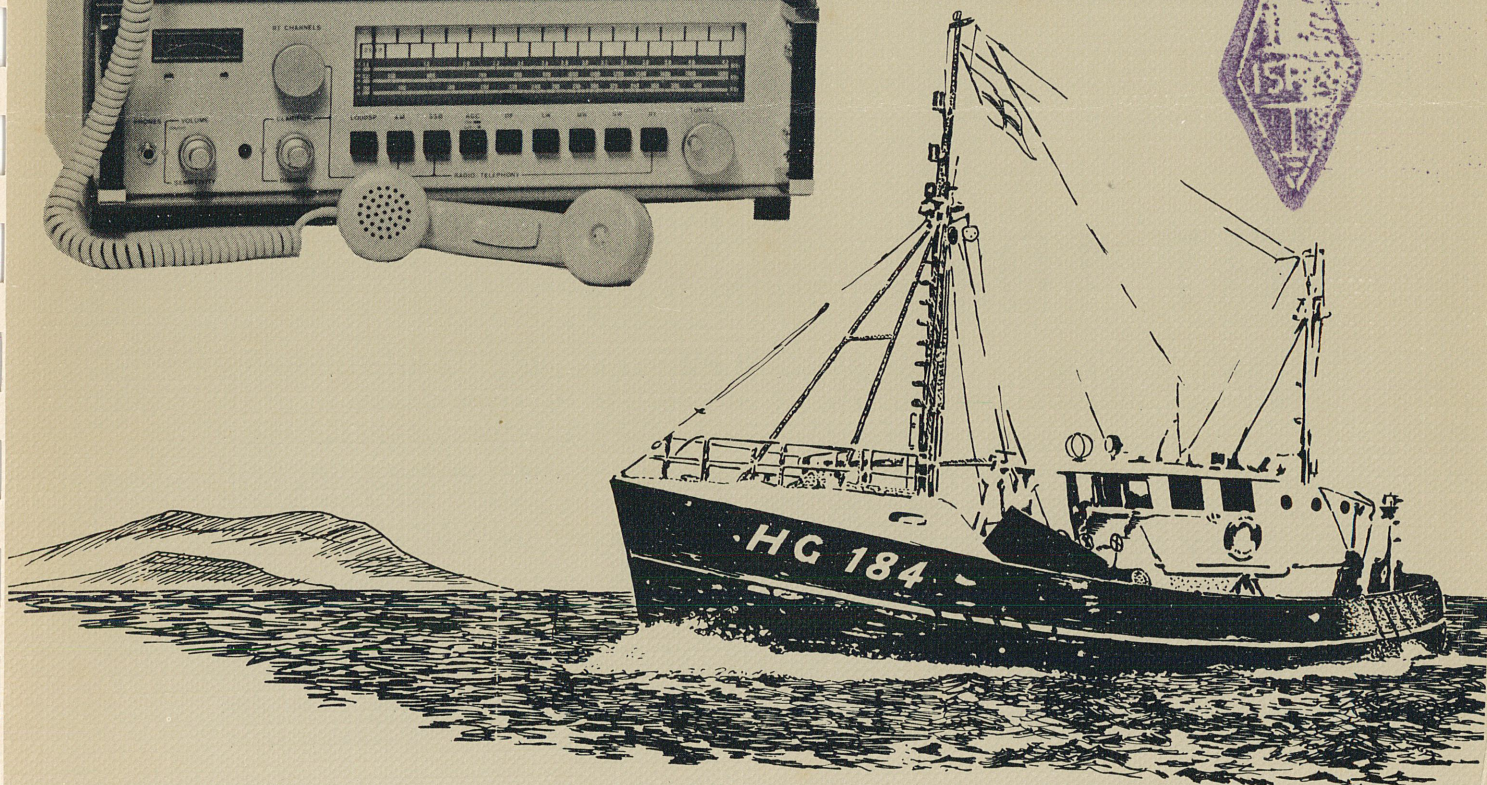
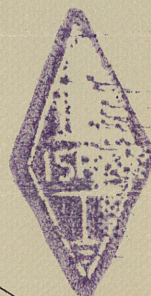
13 F Z F

SSB radiotelephone RT 102



1,6 to 4,2 MHz
400 WATTS P.E.P.

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DENMARK

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RT 102 400 watts P.E.P

RT 102 is the latest design of 400 watt S.S.B. Marine radio station available for M.F. use. Fully transistorized with the exception of the transmitter P.A. which utilizes a single military type ceramic power tetrode rated at 500 W. PEP. Full metering of all critical voltage points in the transmitter is available from the front panel mounted test switch and test meter. Automatic distress alarm is incorporated and modular internal construction ensures fast and efficient servicing.

30 channels are available in the range 1.6-4.2 MHz plus 2182 calling and distress frequency.

Power supply is built in (24 v) and the transmitter is housed in a water resistant rugged steel cabinet which is finished in an epoxy based structural stoving paint.

The receiver, which can be mounted separately if desired has 30 channels plus continuous tuning of the long, medium and M.F. marine bands giving the facility of receiving broadcast programs, weather forecasts and enabling the equipment to be used for radio direction finding on all bands.

Technical Data:

General:

Modes of operation	Simplex/Duplex
Power supply standard	24 volts d.c. battery + 25% - 15%
	consumption on 24 volts operation: receive: approx. 1 Amp stand-by: approx. 5 Amps transmit/receive (duplex operation): approx. 24 Amps
via additional power supply	110/220 volts a.c. \pm 10% consumption: approx. 650 VA

Transmitter:

Types of emission	A3A, A3H, A3J
Frequency range	1.6-4.2 MHz
Frequency tolerance	
Frequency inconsistency at an ambient temperature between + 10°C and + 40°C	short term (15 min) < 20 Hz
at an ambient temperature of + 25°C	long term (1 year) < 75 Hz
Spotfrequencies	2182 KHz and 30, crystal-controlled
Power output	400 watts p.e.p.
Power reduction	selectable: 200 and 50 watts p.e.p.
Antenna impedance	10 Ω + 150 pF 20 Ω + 300 pF
Audio response	< 6 dB (350-2700 Hz)
A.f.-distortion	\leq 10%
Ambient temperature	- 15°C to + 55°C
Warm-up period	35 s
Power amplifier tube	8122 (RCA)
Crystals used	HC-6-U
Two-tone alarm generator	incorporated

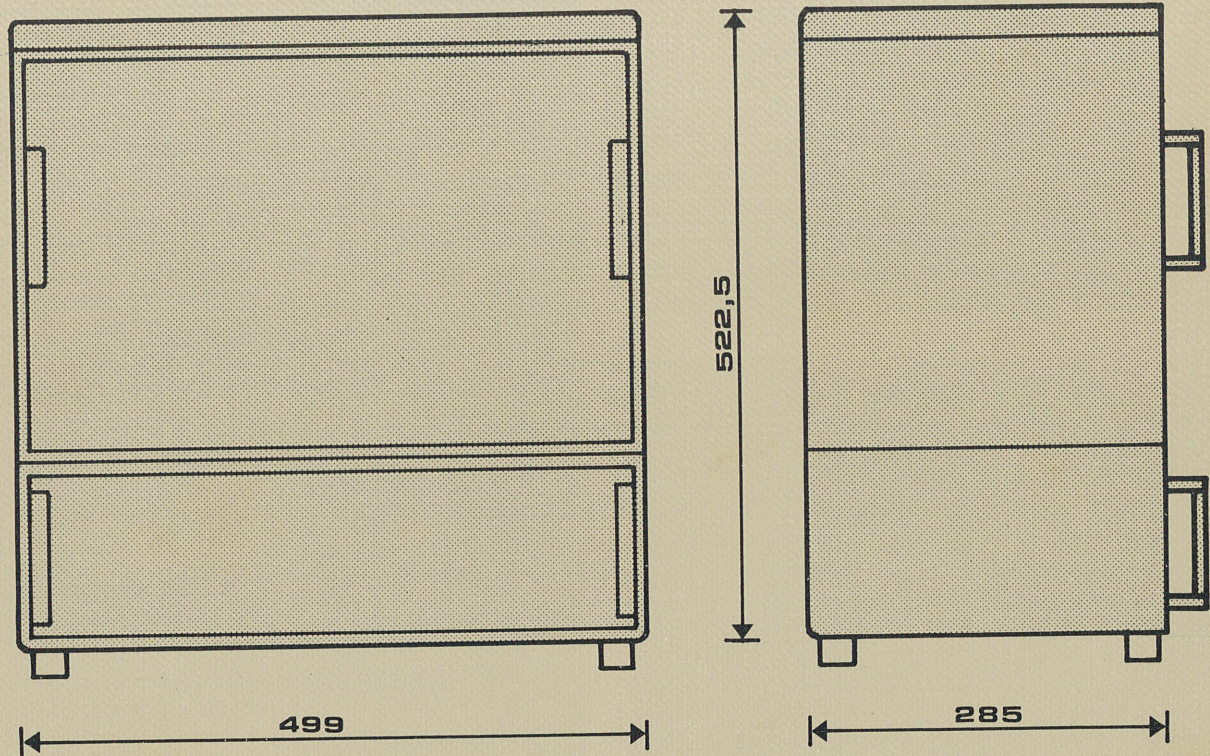
Continuously tunable receiver:

Frequency ranges	1. 150-415 KHz 2. 525-1600 KHz 3. 1600-4200 KHz
Modes of reception	A1, A2, A3
Sensitivity	range 1: A1 \leq 5 μ V for 10 dB signal/noise ratio A3 \leq 15 μ V for 10 dB signal/noise ratio range 2: A1 \leq 5 μ V for 20 dB signal/noise ratio A3 \leq 15 μ V for 20 dB signal/noise ratio range 3: A1 \leq 5 μ V for 20 dB signal/noise ratio A3 \leq 15 μ V for 20 dB signal/noise ratio
Intermediate frequency	580 kHz
I.f.-suppression	\geq 50 dB
Automatic gain control (AGC)	< 0.5 dB change of the output level for a 50 dB increase of the input level
Time constants (A3)	attack: 50 m sec decay: 0.2 m sec
A.f.-output	
external speaker	5 watts into 4 Ω
earphones	1 mW into 2000 Ω
Audio response	\leq 3 dB (300 Hz-4 KHz)
Radiation	typically: 20 \times 10 ⁻⁹ watts max.: 400 \times 10 ⁻⁹ watts

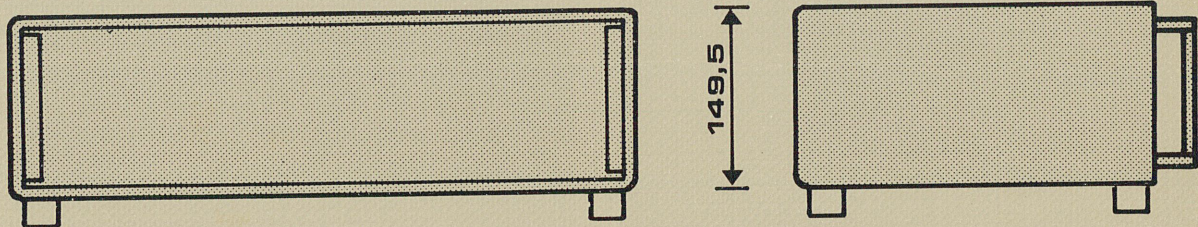
Multichannel-Receiver:

Modes of reception	A3, A3H, A3A, A3J	AGC time constants	attack: 15 m sec decay: 3 sec
Sensitivity	A3: \leq 5 μ V for 10 dB signal/noise ratio A3H, A3A, A3J: \leq 1.5 μ V for 10 dB signal/noise ratio	Clarifier	\pm 200 Hz
Selectivity	A3: 6 KHz bandwidth at - 6 dB 20 KHz at - 60 dB A3H, A3A, A3J: 2.7 KHz bandwidth at - 3 dB	Carrier insertion (crystal-controlled)	580 KHz
		Audio output	
		external speaker	5 watts into 4 Ω
		earphones	1 mW into 2000 Ω
		Intermediate frequencies	1st i.f. = 8.7 MHz 2nd i.f. = 580 KHz
		I.f.-rejection	> 86 dB

OVERALL DIMENSIONS TRANSMITTER AND RECEIVER



RECEIVER ONLY



TO ALLOW FREE AIR CIRCULATION THROUGH THE SET IT IS NECESSARY TO KEEP AT LEAST 15 M.M. FREE AIR SPACE UNDER THE BOTTOM AND BEHIND THE CABINET.

Your Authorised Dancom Distributer is: