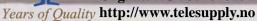


Fetveien 300, N-1900 FETSUND, NORWAY.

Telephone: +47 63 88 43 99 E-mail: post@telesupply.no Org.nr.: NO 935787610 MVA





04.05.2016

Equipment Autorisation Division Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046

FCC ID: <u>2AHVB-JTM-30C</u> Product Name: <u>JTM-30C</u>

## **Theory of Operation / Technical Description**

## **Theory of Operation**

The NDB Transmitter Type JTM-30C is a Non-Directional Radio Beacon (NDB) Transmitter designed for use onboard oilrigs and ships, as well as for other applications at sea or land installations The Transmitter is sending navigation signals (homing indication) for aircrafts.

The JTM-30C is available in two different RF Power output versions (100W PEP or 250W PEP), and with:

- Single NDB Transmitter configuration with one complete transmit chain
- DUAL (or Redundant) NDB Transmitter. This configuration has two complete transmit chains with fault detection/reporting and automatic changeover.

A Single version can easily be upgrade to a Dual version by adding one extra Exciter and one extra RF Power Amplifier.

The equipment is a digital Exciter (DDS) design.

## **Technical Description**

See enclosed document "1. JTM-30C System description" for technical description details and Electrical & Mechanical characteristics.

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Title: <u>L</u>	Sig Deputy Ma	gnature anager		Printed
On beha	alf of :	Tele S	upply A	S
Telepho	ne: <u>+47</u>	63884399		

Our bank is: HANDELSBANKEN Grev Wedels plass 5 Postbox 755 Sentrum 0106 OSLO, NORWAY Bank details: Bank account: 9041.06.34103 SWIFT-CODE/BIC-Address: HANDNOKK IBAN: NO1490410634103