

# ATEX Radio System

Industry-Standard Digital Handheld ATEX radios



**Fern Communications, an OEG Offshore company, has established itself as one of the UK's largest manufacturers and suppliers of specialist two-way communication solutions.**

Fern Communications has the technical expertise and knowledge of both the oil & gas industry plus renewables industries that enable us to offer our customers a fast, reliable and responsive service.

We have built an extensive hire fleet of ATEX and conventional radios and can service and repair any radio that is currently in use.

Fern Com can also supply for sale or hire the FRX-1 ATEX portable radio repeater which can greatly increase radio coverage in hazardous environments.

Eliminates radio black spots

Increases radio coverage

Portable

20 hour duty cycle

5 channels

## ATEX HIRE PACK:

- ATEX Motorola DP4401 handheld radio
- Spare battery
- ATEX leather case
- Motorola ATEX fist mic (optional)
- ATEX Peltor ear defenders & Push to Talk (PTT) protection (optional)
- 6-way charger or single chargers (optional)



FRX-1 ATEX Portable Repeater



ATEX Hire Pack



ATEX Motorola Handheld Radio

# FRX-1 ATEX REPEATER

## Technical Specifications

### GENERAL

- > Freq. range (FRX-1 U2) 440-470MHz
- > Freq. range (FRX-1 U1) 400-440MHz
- > Freq. range (FRX-1 V2) 146-174MHz
- > Protection rating - IP66
- > Area classification - Zone 1 & 2
- > Channel capacity - 5
- > Channel spacing - 12.5KHz / 20KHz / 25KHz
- > Temperature range -20 °C to +50 °C
- > Removable battery - Li-ion 5.3 Ah 14.8V

Current drain:

- > Standby - 98mA
- > Transmit / Receive - 610mA
- > Duty cycle (40%) - 20 hours
- > Dimensions - 270mm x 310mm x 185mm
- > Weight - 15kg

### TRANSMITTER

- > RF power output - 11C = 1W (VHF)/(UHF)  
11B = 3.5W (VHF) / (UHF)  
11A = 4W (VHF) / (UHF)
- > Audio sensitivity - 6-8mVrms @ 60% peak deviation
- > Modulation - G3E

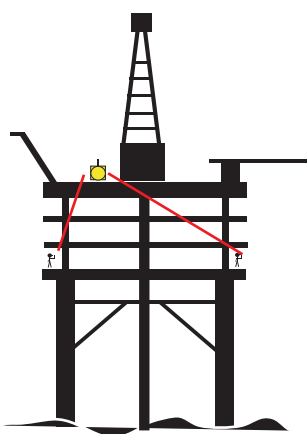
### RECEIVER

- > Sensitivity - 12db SINAD  
UHF: <0.35  $\mu$ V or 116dBm  
VHF: <0.28  $\mu$ V or 118dBm

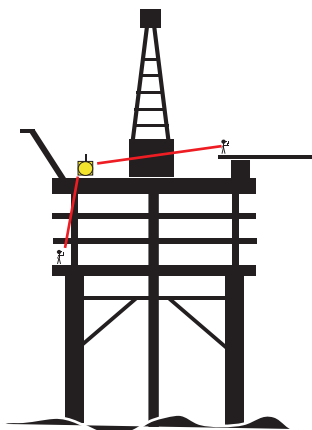
### SUPPLIED ACCESSORIES

- > Battery charger

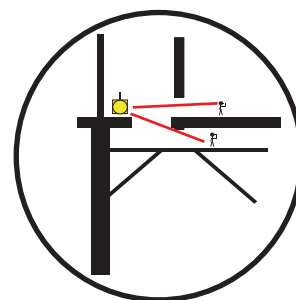
Data transmission



Audio transmission



Confined space transmission



II 2 G Ex d IIC T5 Gb  
BK113ATEX0022



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