

a superior solution for crane communication

introducing the
Sarus Ex Crane Radio
ATEX - Approved Zone 1 Hazardous Area



**Nessco Group has developed a 3rd generation design
of the ATEX - Approved Sarus Ex Crane Radio System**

Resulting in a much improved communication system for crane operators
in Zone 1 Gas Group II hazardous areas.

System comprises of Radio Enclosure, compact Control Head and all operator accessories,
such as gooseneck microphone, headset and footswitch. The compact Control Head minimises
the space required near to the crane operator.

The Exd Radio Enclosure (IP66) may be installed in an unused space away from the operator
position, internal or external to the crane cab.

The System is supplied ready for installation, with all interconnecting cabling, connectors,
speakers and antennas (optional) provided as standard.

Sarus Ex Crane Radio

Innovative and user friendly the Sarus Ex has the following design features:

- Specifically tailored to meet the unique requirements of the crane operator.
- Designed to minimise the equipment required near to the operator position.
- System is split into two units; the Radio Enclosure can be mounted internally or externally.
- Radio functions are accessed via the Control Head located near to the operator.
- Enables vital contact with both deck crew and maritime vessels.
- Full hands-free operation through a press to talk footswitch and microphone.
- Noise cancelling headset allows operator to hear and relay information clearly, even in high noise situations.
- Pubic address "shout" facility for quick communication to deck personnel in an emergency situation.



GENERAL

Frequency Range:	136-174 MHz & 403-470 MHz
Channel Capacity:	255 each radio
Channel Spacing:	12.5 / 20 / 25 KHz
Power Supply:	94 - 260VAC or 24VDC
Antenna Impedance:	50ohms
ATEX Certificate Number:	CESI 05 ATEX 045
Certification:	Ex II 2GD, EEx d IIB T6
IP Rating of Radio Enclosure:	IP66
IP Rating of Control Head:	IP54

DIMENSIONS

Radio Enclosure:	358mm (w) 278mm (h) 278mm (d)
Control Head:	180mm (w) 110mm (h) 125mm (d)
Foot Switch:	80mm (w) 225mm (h) 60mm (d)

ACCESSORIES

Heavy Duty
Foot Switch

Dynamic Gooseneck
Microphone

UHF and VHF
Antennas with cable

8 W (max)
Internal Speakers

Noise Cancelling
Headset

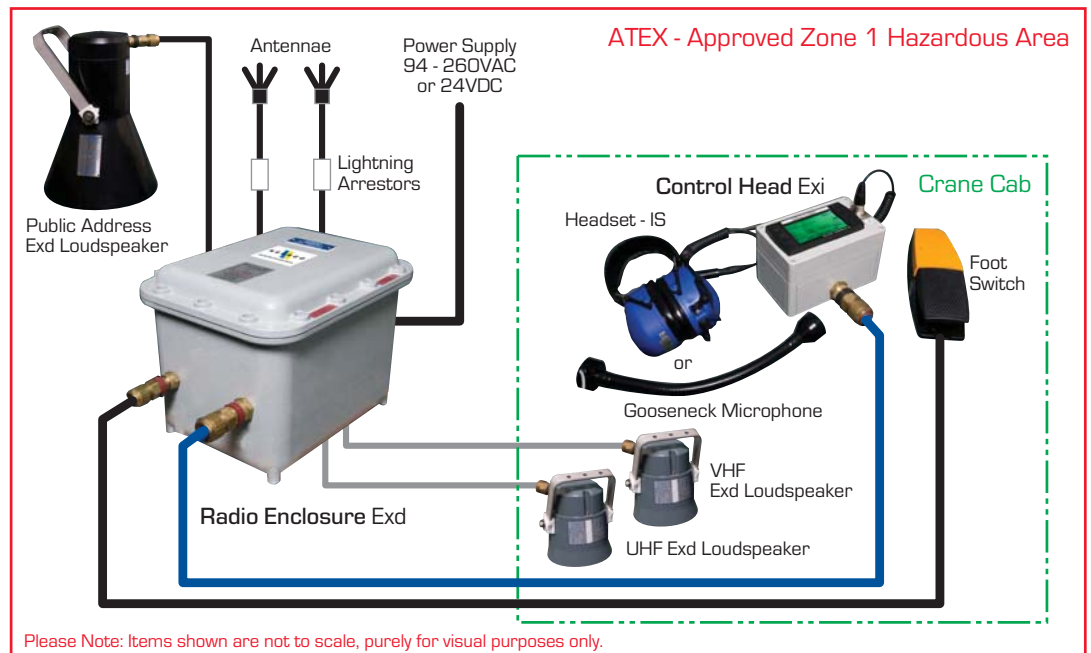
25 W (max)
'Shout' Speaker

TRANSMITTER

RF Output Power:	1.0W +/- 0.2W
Modulation:	< +/- 5KHz @ 25KHz < +/- 2.5KHz @ 12.5KHz
Spurious Emmissions (EN):	-36 dBm < 1 GHz -30 dBm < 1 GHz
FM Noise (EIA):	45 dB
Modulation Distortion:	< 3%

RECEIVER

Sensitivity:	0.30µV
Rated Audio:	8 W
Audio Distortion:	3% Typical



Nessco Group reserve the right to alter specifications without notice. No liability is accepted for any consequence of use.

For more detailed information on SARUS Ex, please contact: sales@nesscogroup.com