



TUFF TALK

Remote Communication Unit



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REMOTE COMMUNICATION UNIT

The TUFF-Talk device is a fixed location audio station, designed to interface with a Winder Voice Radio Network. The associated audio and PTT request are simply conveyed by a twisted-pair, reticulated from the required fixed location back to either the Winder Communications Panel or another fixed audio station (i.e. multi-dropped). The unit can be powered by local 12VDC supply or an internal 100-240VAC switch mode power supply.

CONNECTIONS

Power

The TUFF-TALK can be powered by two means:

Mains AC Supply

A universal range (100 to 240VAC) power supply may be connected directly to the terminals of the internal Switch Mode Power Supply. The typical full-load rated input, current of this power supply, is 0.33 A @ 115VAX, 0.21A @ 230VAC.

DC Supply

Should a local 12 VDC power supply be available, this can be connected directly to the output terminals of the Switch Mode Power Supply.

Audio

The audio signal line is transmitted and received over a twisted pair that requires to be connected between the TUFF-TALK and wither the Winder Communication Panel or another fixed audio station (i.e. multi-dropped). The twisted pair requires to be terminated to the Din-railed SAK terminals.

ELECTRICAL DATA

External Power Supply	Voltage	Standby	Receive audio (full volume)	Transit audio
Mains AC Supply (100-240VAC)	240VAC	17.6mA	50.1mA	19.8mA
DC Supply	12VDC	44.42mA	262.7mA	57.28mA

MECHANICAL DATA

External dimensions	25.5x33x16 cm (WxHxD)
External material	2mm 304 grade stainless steel
Internal back pan material	2mm 304 grade stainless steel
Weight	6.78 kg

ENVIRONMENTAL PARAMETERS

Temperature	0-60 ° C
Humidity	0-85 %

FEATURES

Microphone

The microphone is located in the centre of the front panel and accepts the audio of a person's speech, whenever the "PRESS-TO-TALK" button is depressed

Volume

The audio level, received from other devices, is controlled by the volume adjustment located on the front panel.

Power/PTT Indication

There is an 8mm Ø green LED located in the central area of the front panel. The LED is IP67 rated and is illuminated as follows:

- Partially illuminated = TUFF-TALK power supply is healthy
- Fully illuminated = when the "PRESS-TO-TALK" button is depressed, initiating an audio transmission from this unit

Press-to-talk

To initiate communications from this device to other Voice Radio devices on this network, simply depress the "PRESS-TO-TALK" button, speak towards the microphone and release the pushbutton to then receive audio

Construction

The TUFF-TALK is housed in a ruggedised stainless steel enclosure and has four externally placed 10mmØ clearance holes incorporated to assist with installation.

TYPICAL APPLICATIONS

- Mine Drift Winders
- Mine Shaft Winders
- Shaft Sinking Winders



AUDIO DATA

Frequency response	300 - 3000Hz (+/- 1.5 dB ref 1000Hz)
Signal to noise	> 70dB
Distortion/power	Less than 5% at 0.5 watts at the speaker
Line impedance	600 Ω
Audio input	-35 dBm minimum
PTT Line-out	12.0VDC; current limited to 30mA



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