



# TUFF TALK

## Remote Communication Unit



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**TECOM**

# 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 ins 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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