



FW4010
4 Channel Desktop Four-Wire
Intercom Unit



by
CTP Systems



Product warranty

This unit is guaranteed for a period of one year from dispatch of the goods. This guarantee is a return to base warranty. In the unlikely event of a fault the goods should be returned to CTP Systems in the UK or your local dealer.

This equipment is CE marked and conforms to the following directives:

Low Voltage Directive: EN60065

Emissions: EN55103.1

Immunity: EN55103.2

WEEE

CTP Systems are registered for Business to Business sales of WEEE in the UK. Our registration number is WEE/DF0509VR. This is why our product has a ridiculous picture of a dustbin on the back.

RoHS

The product conforms to the RoHS Directive 2002/95/EC for restriction of the use of hazardous substances in electrical and electronic equipment.

This unit was designed and manufactured in the UK by CTP Systems Limited, Unit 4, Clinton Business Centre, Lodge Road, Staplehurst, Kent TN12 0QF.

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Overview

The FW4010 is suitable for use with four four-wires. Inputs one and two have IFB facilities.

It is also possible to use the unit as an open talkback source along with four system inputs and three keyed outputs.

The unit will operate over a mains input range of 110-240VAC 50/60 Hz with no adjustment

Front panel



The talk keys are press down for momentary or up for latching action with center off. The latching action may be defeated using the 'latch disable' switch on the rear. When a talk key is enabled the associated red LED will illuminate. The green LED will illuminate when the respective channel has incoming audio of level -20dBm or above. When the incoming audio source has ceased the LED will remain illuminated for approximately eight seconds.

The microphone input is equipped with a limiter set to +6dBu.

12v Phantom power is available for the microphone input, to enable this you will need to enable the phantom power position on the REAR panel dip switch.

Volume controls are provided for each incoming audio source. Each channel will individually dim the incoming circuit when the talk key is pressed.

When headphones are plugged into the unit the internal speaker will cut.



Rear panel



IFBs

Channels 1 and 2 both operate as IFB channels. For normal four wire use no connection need be made to IFB1 or IFB2 inputs.

If an audio feed is connected to IFB1 input then that audio will be heard on output1. When channel 1 talk key is pressed then the unit's microphone will be heard on output 1 and the

IFB input source will be cut. When the key is released the IFB input audio will be restored and the mic no longer heard.

The same facility exists for output2/IFB 2 respectively.

The IFBs are entirely independent from their four wire inputs so no four wire facilities are lost when the IFBs are used.

Mic amp gain

This is preset with 60dB gain but may be adjusted by adjusting the mic amp gain multiturn potentiometer. Level may be adjusted between +15dB to +66dB of gain.



XLR earths

If a problem should occur with hum then this switch may be used to prevent an earth loop.

It should be switched to 'connect' for normal operation.

Key Latch enable

This switch will enable or disable the 'up to latch' operation of the talk keys. Useful for the more, shall we say, uninitiated users of talkback equipment. Switch to enable for normal use.

Speaker enable

This enables the user to cut the internal speaker. Especially useful if the FW4010 is in use in the studio as the speaker will not come on if the headphones are unplugged.

O/P 4 open TB

When switched to 'open talkback' then output 4 will carry the line level microphone output whether key 4 is pressed or not. The corresponding audio input 4 is still available but will not be dimmed by the talk key. All other outputs operate as normal.

The talk key LED will remain illuminated to show that output is live.