PHASE TONE

PT001

2-WIRE TO 4-WIRE COM INTERFACE

User Manual

Specifications

- **Dimensions:**
- **Weight:**
- **Power Requirements:**
  - **Power is provided from the party line bus.**
  - **Voltage: +7V and +30V DC.**
  - **Current Draw:**

- **Connectivity:**

Party line Pinout	
Pin Number	**Function**
1	GND
2	+7-30VDC
3	Party Line Audio

RJ45/4-Wire Pinout	
Pin Number	**Function**
1	N/A
2	N/A
3	Audio Out +
4	Audio In +
5	Audio In -
6	Audio Out -
7	N/A
8	N/A

General Use

The PT001 allows for direct injection and extraction of audio on a 2-wire party line com bus. The unit only requires an adapter cable to match the audio system being interfaced with. See Suggested Accessories section for adapter cable options. The device is otherwise self supporting and does not require any addition hardware to operate. 4-wire audio input and output are fully balanced allowing for transmitting or receiving over extended cable lengths while maintaining noise immunity. 4-wire Audio is nominal at +4dbu line level with a maximum null of around -30dB.

Connect the unit as described in Figure 1 below. After connected to the partyline bus adjust the null potentiometer on the side of the unit. The nominal nulling is when the 4-wire audio going into the unit is at its lowest on the output of the unit. The easiest way to achieve this is to inject a tone into the input while monitoring the output. This null value will need to be adjusted whenever there is a cable length or pack count change on the partyline bus.
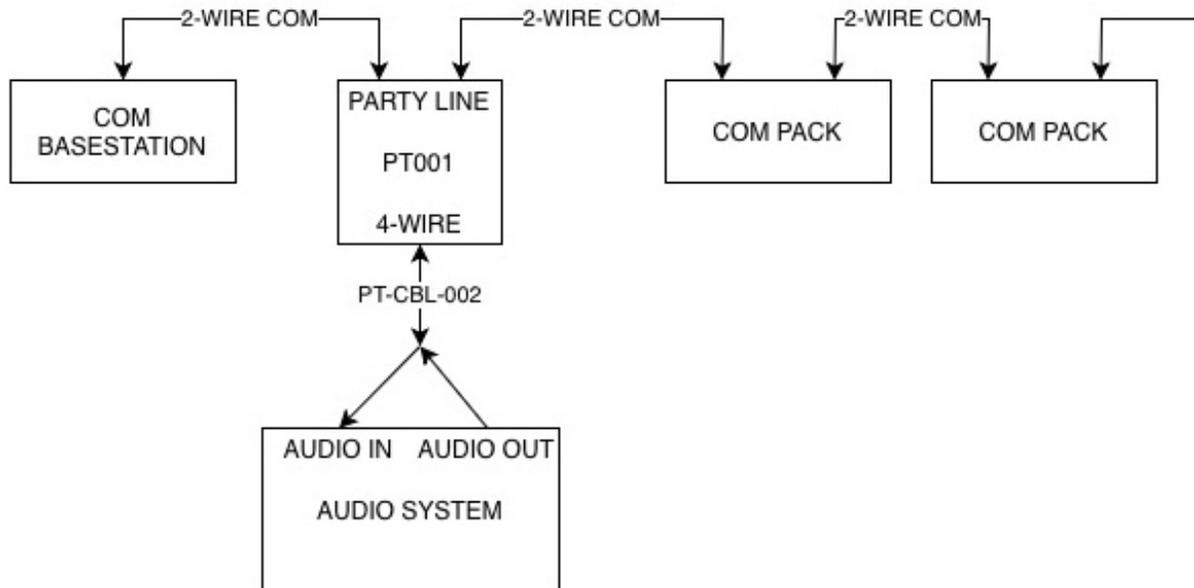

Figure 1

Suggested Accessories

- **PT-CBL-001 – Breakout cable for Blackmagic Studio Fiber converters. Includes connections for both ENG and PROD channels.**
- **PT-CBL-002 – Breakout cable to male and female XLR connectors. Used when interfacing with other audio systems.**