



## SPH10 Analog Telephone Hybrid

Interfacing your audio equipment to a telephone line has never been easier or more affordable. The SPH10 Analog Hybrid uses the latest in analog technologies to provide you with a great combination of price and performance.

The SPH10 provides an entry-level telephone interface between a standard telephone line and your audio equipment, allowing you the ability to send audio to and receive audio from a connected telephone line. The SPH10 hybrid provides a nominal 12dB of send audio to caller audio separation. The SPH10 works well for talk shows, news feeds, production, recording studios, and Internet applications.

The SPH10 enhances the audio of all your calls. Gentner's exclusive audio filtering eliminates unwanted noise and hum while maximizing the intelligibility of caller audio. Plug a speaker into the monitor jack and monitor incoming calls hands-free.

Installation is a snap! Connect the SPH10 to a telephone line and a telephone set. Then plug it into your equipment using the balanced XLR connections. Independent send and caller level controls allow you to optimize the audio levels sent to and received from the telephone line.

Controlling the hybrid is just as easy. Press the On and Off buttons located on the front panel to connect and disconnect the telephone line. Also, On/Off control of the SPH10 may be remotely activated.



**The SPH10 works well for talk shows, news feeds, production, and recording studios.**

### Features and Benefits

- Newest analog hybrid technology provides a great combination of price and performance.
- Audio filtering makes callers sound as good as possible
- Balanced XLR input and outputs
- Balanced and unbalanced mix outputs for recording both sides of the conversation
- Built-in monitor amp allows hands-free monitoring of calls without a headset
- Easy to install and simple to operate
- Automatically accepts all worldwide voltages
- Worldwide compliant including FCC, CSA, CE and CTR21
- Dry line capability



## Specifications

**Dimensions (LxDxH)**  
 17.125" x 10.125" x 1.75"  
 43.5 cm x 4.44 cm x 25.7 cm

**Weight**  
 6.35 lb/2.88 kg (dry)  
 10.95 lb/4.97 kg (shipping)

**Operating Temperature**  
 32–100°F/0–38°C

**Humidity**  
 0–80 percent

**Controls**  
 On/Off Buttons  
 Volume Up/Down Buttons

**Status LEDs**  
 On Status, Off Status

**Adjustments**  
 Send Input Level  
 Caller Output Level  
 Auxiliary Input Level  
 Auxiliary Output Level  
 Mic/Line Select  
 Caller Boost Select  
 Momentary/Latching Select

**Power: IEC Type**  
 Auto Adjusting 100-240VAC, 2A,  
 50/60Hz, 30W

**Remote: DB25 Female**  
 Remote Send Input: 0dBu nominal,  
 adjustable, unbalanced, 20kΩ  
 impedance  
 Remote Caller and Aux Output:  
 0dBu nominal, adjustable  
 unbalanced, 50Ω impedance  
 Control Inputs: Remotely activate any  
 of the following functions with a  
 switch closure to ground: On, Off,  
 and Monitor Mute

**Status Outputs:** Remotely check the  
 status of the hybrid using the On  
 and Off status outputs. Status  
 outputs are open collector outputs  
 rated at 30VDC and 40mA  
 maximum.

**Monitor Output: 1/4" stereo jack**  
 1W output into an 8Ω load

**Send Input: XLR female**  
 Mic/Line selectable, -55/0dBu nominal,  
 adjustable, balanced, bridging,  
 20kΩ impedance

**Caller Output: XLR male**  
 0dBu nominal, adjustable, balanced,  
 50Ω impedance

**AUX Output: XLR male**  
 0dBu nominal, adjustable, balanced,  
 50Ω impedance

**Telco Line: RJ11 connector**  
 POTS (plain old telephone service) line or  
 analog extension from a PBX or dry line  
 (no DC offset voltage). A-Lead  
 supervision provided

**Telco Set: RJ11 connector**  
 A-Lead supervision provided

**Telephone Transmit**  
 Nominal send input of 0dBu  
 referenced to -15dBu onto the  
 telephone line  
 Frequency Response: 250Hz to 3.5kHz,  
 ±1dB  
 SNR: >56dB  
 Distortion: <0.2%

**Telephone Receive**  
 Nominal telephone line level of -15dBu  
 referenced to caller output of 0dBu.  
 Frequency Response: 250Hz to 3.5kHz,  
 ±2dB  
 SNR: >56dB  
 Distortion: <0.3%

**Null**  
 Send-to-Caller Separation: 12dB nominal

## Typical SPH10 Installation

