ambicon®

SPM01, SPS01

Loudspeaking communication and monitoring stations for airport traffic control centre communication lines.

Definition:

This stations are intended for:

- Loudspeaking communication between two points on the communication line
- Loudspeaking duplex communication between two points on the communication line with PTT and Squelch, with the option of simulated radio connection (signal)
- Loud monitoring of the communication line
- Loud monitoring of radio stations on the line with Squelch and PTT identification

The system consists of these separate functional modules:

SPM01 – 2-way communication interface

- Interface for connection to the communication line
- Interface for a headset with an electret or dynamic microphone
- Interface for a handheld microphone (electret or dynamic)
- Separate amplifiers for headset and handheld microphone
- Side tone – Off, True and Local
- Squelch input
- External PTT input and output
- Internal audio limiter
- Output for audio recording

SPS01 – Loudspeaker Station

- Loud monitoring of the communication line via amplifier and speaker
- Side tone – Off, True and Local

Power supply:

AC adapter with output voltage range 18–33V DC / maximum current draw 0,5A, connected via 9-pin D-sub connector.

Specifications:

Current draw:
- SPM module: 100 mA
- SPM+ SPS modules: 200 mA typ.
- 400 mA max. (at full output)

Mountable to t3HE enclosures

Line IN:
- Max. input level:
  +15 dBu; 4,5V RMS @ 1kHz
  +12 dBu; 3,2V RMS @ 300Hz
- Input impedance: 600 Ω

Line OUT:
- Load impedance: 600 Ω min.
- Maximum output level:
  +15 dBu/ no load
  +10 dBu / 600 Ω

Rec OUT:
- Nominal output level:
  300 mV RMS (1 Vpp)

SPS speaker power output:
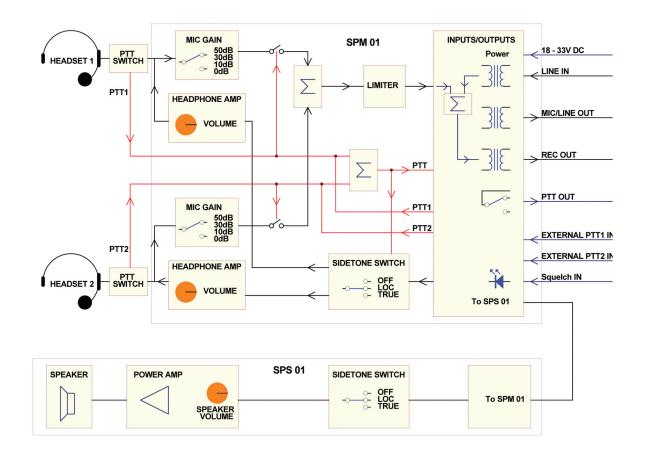- 3W RMS, THD+N = 10%

Dimmensions (WxDxH):
- SPM: 81x60x128mm
- SPS: 102x70x128mm

Deployment example:
- Operation line monitoring
- Communication line monitoring
- Training sites
- ATIS/VOLMET monitoring