

Product Code: **HLD7**



HLD7 Hearing Loop Driver

Description

Contacta HLD7 is a modular hearing loop driver for perimeter or phased array configurations, suitable for medium sized facilities, meeting rooms, lecture halls, places of worship and small theaters. Ultra efficient management of power enables the unit to be extremely compact.

HLD7 is part of a new generation of drivers based on cutting edge loop technology aimed at taking the complexity out of loop design and specification, by allowing equipment and configuration to be determined by performance requirements rather than area. We have done this by designing drivers that are feature-packed, flexible, efficient and ultra-reliable.

To make the experience of using Contacta HLD7 as simple as possible, the driver includes sophisticated communications capabilities enabling remote set-up and control of levels as well as system interrogation and performance monitoring.

Applications

Suitable for medium sized facilities such as:

- Meeting & conference rooms
- Lecture halls
- Places of worship
- Nursing & care homes
- Reception & waiting areas
- Small theaters
- Gyms & sports halls
- Educational establishments

Features

- Built-in 90° phase shift
- Flexible configuration
- Ultra efficient power utilization
- Sleep mode
- High frequency compensation
- Continuous self-testing
- Accurate, lockable controls (front panel mounted)
- Input and drive level indication
- Intelligent protection system
- Flexible audio inputs
- Interface to external communication devices

Area Coverage

Specifying loop equipment and configuration by area can be misleading and lead to poor performing loop systems. Contacta is spearheading a new, simpler approach to loop system design and specification by producing a range of drivers that are the most sophisticated and efficient on the market, allowing sufficient headroom to cope with any situation providing a thorough survey of the facility has been carried out and test measurements taken.



Technical Data

Inputs	Input 1 (Microphone)	Balanced XLR with switchable phantom power or ¼" TRS jack for electret microphone with 3.3VDC power via 680Ω load
	Input 2 (Line)	Balanced XLR or ¼" TRS jack to ohmically isolated input
Loop output	Loop connection	4-pole speakON connector
	Loop drive current	4A RMS compliance current @ 1Khz sine wave
	Loop drive voltage	15V RMS compliance voltage
Expansion	Contacta interconnect	Input or output to or from additional Contacta systems. 90° phase shift selectable
Status	External LEDs or relays	2 x constant current drive @ 20mA, 22V max
Feature	External monitor & control	Contacta communications processor interface
Audio	Frequency response	100 Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
Automatic gain control	Digitally controlled	Dynamic range: 40dB typical Attack time: 33 milliseconds Release time: 3.6dB per second
Controls	Microphone level	Off, then to maximum in 50 1dB increments
	Line level	Off, then to maximum in 50 1dB increments
	Loop current	Off, then to maximum in 63 1dB increments
	High frequency compensation	Flat to 6dB boost in 7 increments
	Function switching	All functions selectable from front panel buttons, held in non-volatile memory
	Security	Controls may be locked against tampering
Displays	Microphone level	8 level bar graph with peak hold, 6dB steps
	Line level	8 level bar graph with peak hold, 6dB steps
	Output drive level	8 level bar graph with peak hold, 0.6A steps
	Other indications	LEDs for all setup and status indications

Physical Data

Dimensions	Height – 1.75"/44.5mm (1U 19" rack mount) Width – 7.87"/200mm (19" half rack) Depth – 10.24"/260mm
Weight	5.51lbs/2.5kg (boxed incl. PS-60 power supply unit)

Standards

- UL Compliant
- FCC Class "B" EMC (emissions)
- IEC 60118-4:2006 (will be met in correct installations)
- BS EN 55103-1:2009 (EMC emissions)
- BS EN 55103-2:2009 (EMC Immunity)

Accessories

- Rack mount brackets
- RX-20 loop listener
- FSM field strength meter
- Flat copper tape
- Concrete burial cable
- Speciality installation tracks