PHANTOM

REACTOR

C U S T O M

TECHNICAL GUIDE
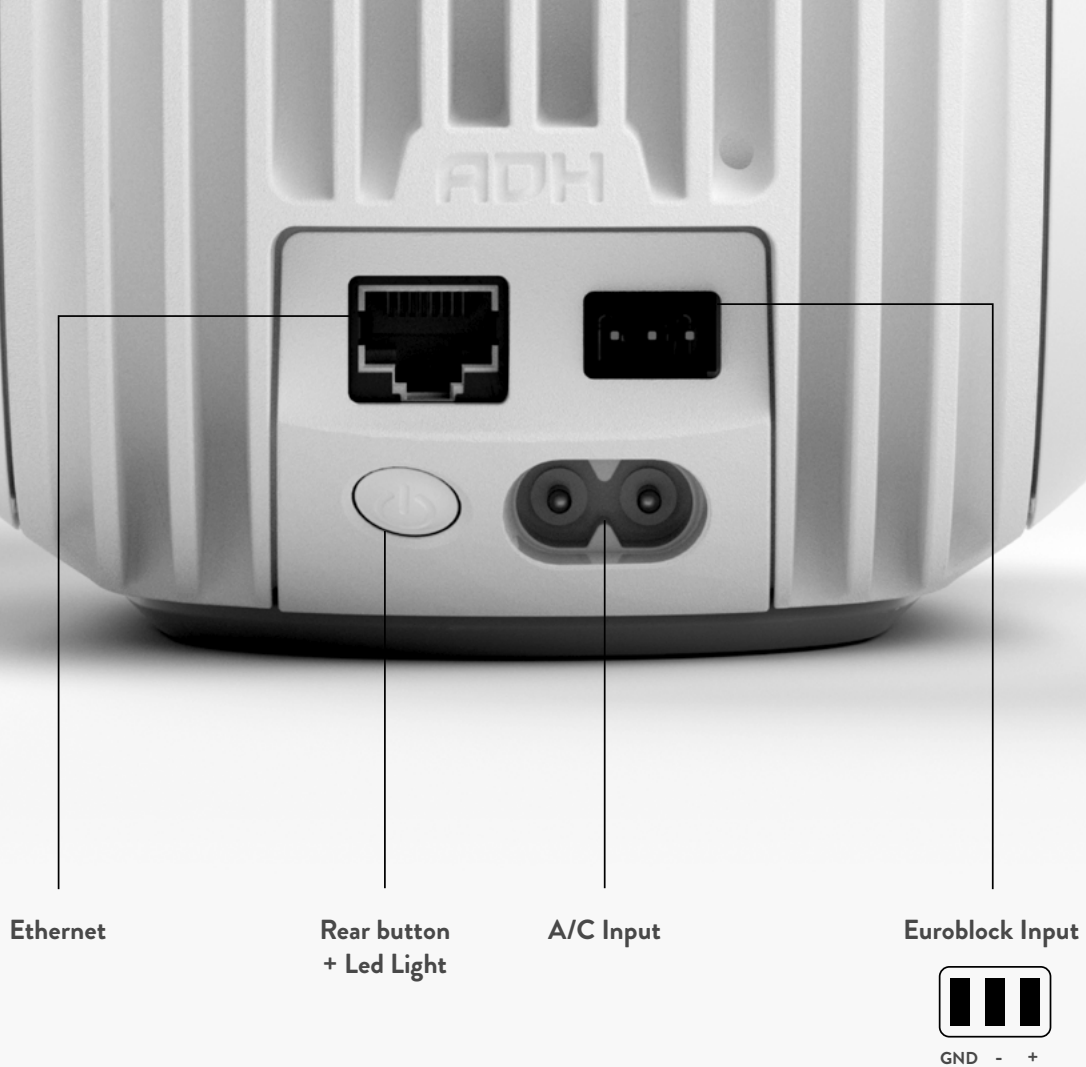
Ethernet

Rear button
+ Led Light

A/C Input

Euroblock Input

GND   -   +

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Inherited from Phantom's proprietary sound and design technologies, Phantom Reactor Custom is a 2-way active loudspeaker, specifically engineered to provide unique experiences in custom whole home audio and commercial spaces.
Embedding professional features such as Dante network and analog/AES input, Phantom Reactor Custom was made to fulfil technical requirements for integrators.

DESCRIPTION & CONNECTIVITY

One configurable 3 pins Euroblock connector, configurable in digital or analog input

In digital input mode:

- AES/EBU 110 Ohms balanced digital input
- supported incoming streams are PCM 16/24 bits from 44.1kHz to 192kHz
- Dolby Digital, DTS, and DoP not supported

In analog input mode:

- balanced analog mono input
- input impedance is 10 kOhms
- incoming levels up to 10 Vrms
- adjustable sensitivity from 10 Vrms down to 0.5Vrms in 0.5Vrms steps

One shielded Ethernet port featuring dual network interface, one for Dante audio and one for configuration and IP control

Dante audio supports:

- PCM 16/24 bits streams from 44.1kHz to 96kHz
- Dolby Digital, DTS, and DoP not supported

One rear button, including a LED light

The default LED light color code is the following:

- blinking white = factory OS
- persistent white = boot
- led off = powered on, normal behavior
- red = error

Warning: this is the default behavior.
API commands can define another behavior (see API list of commands in a separate sheet)

Universal A/C input 100-240 Vac ~ 50/60 Hz

What the product does and does not

- Ethernet only
- No WiFi/Bluetooth hardware capability
- No MFI chip => AirPlay/AirPlay2 not available
- No connected audio service (Spotify Connect, Qobuz, Tidal, Web radios...)
- No networked audio service (UPnP, Devialet Air, Roon Raat, Chromecast...) except Dante
- No Devialet App compatibility
- Setup using web interface and/or external API commands
- All internal status can be monitored via external API commands
(internal status not required on web interface)
- Software upgrades via web interface only

Networking details

- DHCP mode upon unboxing to ensure an easy setup
- Fixed IP mode highly recommended
- IPv4
- 2 IP addresses :
  one for control/config and one for Dante (common to most Dante-based products)
- Change between DHCP and fixed IP mode via web interface for both addresses. Either
- DHCP on both either fixed on both (can't be a mix of fixed and DHCP)
- Single 'Friendly Name' even if two IP addresses are available
- Same 'Friendly Name' for Dante and Control

Web interface settings

- Software upgrades
- DHCP to fixed IP mode
- Set of 'FriendlyName'
- Set of 'SplMax'
- Set of 'Mix'
- Set of 'AnalogSensitivity'
- Set of 'StartupSource'
- Set of 'StartupVolume'
- Set of 'Volume'
- Set of 'Source'
- Set of 'LedMode'
- Reboot button (page 4)
- Reset to Factory button (page 4)

Devialet Configuration

Configuration

Set advanced parameters for the device

Device name	Phantom Reactor Custom-PRO
Max dB SPL	96
Channel mix	Mono mix
Analog sensitivity (Vrms)	2
Startup source	Dante
Current source	Dante
LED mode	Turned off
Startup volume (in %)	96

Devialet Configuration

General

Information about the product

Model	Phantom Reactor Custom
Serial number	M29X004599R01
Version	1.0.10 (1.0.10.49152)
Build type	release

System reboot

Reboot

Reset to factory settings

DEVIALET

ONE SIMPLE EXAMPLE OF CONFIGURATION

Goal:
I want to connect a Phantom Reactor Custom to a streamer, using the AES output of the streamer

- I unbox Phantom Reactor Custom

- I connect Phantom Reactor Custom to the local network using the Ethernet port
    Note that a DHCP server must be available on that network.

- I plug Phantom Reactor Custom to the mains.

- I look for the IP address of the product.
    For example: 172.16.1.3

- Using a web browser, I go to the configuration webpage at http://172.16.1.3/

- I configure the product from there:
    I choose a friendly name: my Reactor
    I choose the maximum sound level of my Reactor Custom: 90 dB SPL
    I choose the channel mix: Mono mix
    I choose the startup and current source: AES input
    I choose the startup volume: 40%
    I choose the current volume: 30% (for my first tests)

- Parameters are applied dynamically.

- I am now free to maintain an ethernet connection or disconnect the product from the network

- I configure my streamer

- I connect to my streamer and select its AES audio output

I push play and enjoy !

Configuration

Set advanced parameters for the device

Device name	my Reactor
Max dB SPL	90
Channel mix	Mono mix
Analog sensitivity (Vrms)	2
Startup source	AES/EBU
Current source	AES/EBU
LED mode	Turned off
Startup volume (in %)	40
Current volume (in %)	30

Success
The values are submitted as soon as you change them.

HOME AUTOMATION DRIVERS LIST

Available now:

Crestron
Control4