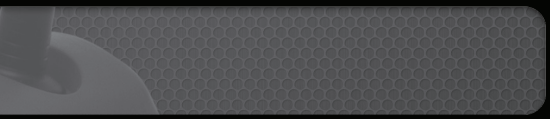
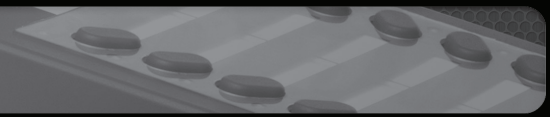
apart
Sounds like the right choice





DIMIC1 / DIMIC12 / DIMIC12S

Instruction manual

DIMIC1 / DIMIC12 / DIMIC12S Manual

Introduction

Please read this manual before using the product in order to give you the necessary product and installation instructions to assure a seamless installation and non-compromised overall sound quality and functionality.

Thanks for purchasing our DIMIC 1/12(S) Digital paging station (Digital paging station slave unit).

DIMIC 1/12(S) is a versatile tabletop microphone (or slave unit), easy to configure via the host's graphical user interface. You can even incorporate the unit(s) in your work surface, or mount the unit(s) on the wall.

Affordable, versatile, but by no means a compromise on sound quality or on functionality – Typically Apart!

Safety precautions

- Keep this manual for future reference.
- Take care of your connection wires: they should be free of damage. Damaged wires may result in poor sound quality or malfunctions and can cause damage to the installation.
- Only use accessories specified by the manufacturer.
- Make sure the wall construction can support the units' weight.
- No mains power shall be connected to the device, doing so will damage the unit.
- This device should only be serviced by qualified personnel. If not serviced by qualified personnel, warranty may be void.
- Use cables with clear color indication and maintain polarity throughout the whole system.
- Please check the packing for any kind of damage upon reception of the goods. If the packing is damaged, please contact your dealer before opening it.
- Please note that this unit must be protected from moisture and is meant for indoor use only.

Features and benefits

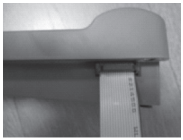
- Inconspicuous and elegant design
- Remarkable sound quality
- Flexible microphone stem (DIMIC1/12)
- Exchangeable paper inserts (labels next to knobs)
- Unidirectional condenser microphone (DIMIC1/12)
- Speech-optimized sound processing (DIMIC1/12) with speech optimized EQ, filter and limiter
- 12 selection buttons and status LEDs (DIMIC12/12S)
- Push-to-talk button and multicolor paging status LED
- All zone selection knob (DIMIC1)
- Expandable up to 64 zones, 64 presets and up to 120 mics!
- Universal configuration of push buttons, making it easy to select zones, zone groups or to perform additional tasks such as entrance control, lighting control, home or office automation…depending on the master unit's capabilities
- Virtually endless applications
- Wall mounting possible
- Flush mounting possible
- Output volume control
- Automatic addressing

- Balanced line-out allows long cables (DIMIC1/12)
- Easy connection using standardized CAT5 cables
- External power supply possible
- Indoor use only

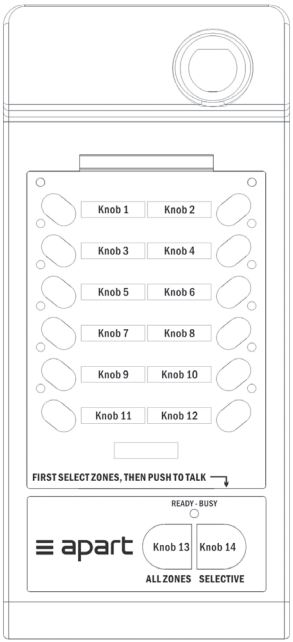
Connecting the unit

Consult the manual of your master unit before connecting the microphone. Use a standard CAT5 cable to connect the microphone to the main unit. Normally, the main unit will also provide the necessary power to the microphone. Consult the manual of your main unit for more details.

DIMIC12S, the slave unit, cannot be used without the DIMIC12 digital paging station. The purpose of the slave unit is to expand the number of zones and/or programmable function keys on the paging station. The slave unit is connected to the paging station using the flat cable supplied with the slave unit. It is possible to daisy chain up to 7 slave units.
The opening for the flat cable is at the right side of the DIMIC12 unit. Just pop off the small lid and connect the flat cable. Connect the other end to the left side of the slave unit and so on…



Front layout DIMIC12



Knobs 1 - 12 are for zone selection or programmable functions. The amber LEDs next to the knobs will light up when the knobs are pushed. The behavior of the LEDs and knobs depend on what has been programmed in the master unit. The knobs can be configured as latching or non-latching knobs, zone selection knobs, function knobs or preset recall knobs.

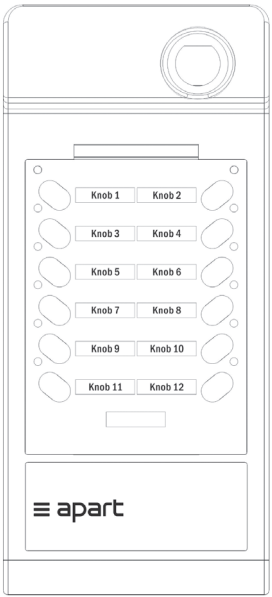
Knobs 13 and 14 are the actual paging buttons: when pushing knob 13, all pageable zones will be paged. When pushing knob 14, all selected and pageable zones will be paged. The corresponding selection LEDs will light up to confirm the selection.

The ready-busy LED is green when the unit is ready and when paging is allowed. It turns orange when a paging request is sent to the master unit and turns red when paging is forbidden due to priority restrictions. During the time the chime is sounding, the ready-busy LED will stay orange. When the chime has finished playing, the LED will turn green to indicate that paging is possible. The amber selection LEDs of the selected zones will flash during paging.

Multifunction status LED (DIMIC12 only):

GREEN	ORANGE	RED
Unit is ready	Paging requested	Paging forbidden
Paging in progress (zone LEDs will flash)	Chime is sounding	

Front layout DIMIC12S

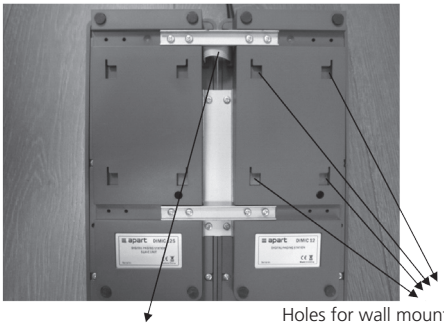


Knobs 1 – 12 are for zone selection or programmable functions. The amber LEDs next to the knobs will light up when the knobs are pushed. The behavior of the LEDs and knobs depend on what has been programmed in the master unit. The knobs can be configured as latching or non-latching knobs, zone selection knobs, function knobs or preset recall knobs.

Combining / expanding the unit

The slave units are supplied with metal brackets, which allow you to mechanically attach the units to each other

Bottom view

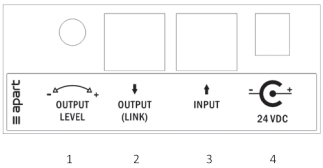


Holes for wall mounting the unit(s)

"Slave to paging station" interconnection flatcable, supplied with the DIMIC12S.

The holes for wall mounting are spaced 54 mm apart horizontally, and 82 mm vertically, heart to heart.

Rear panel



1. Output level adjustment: turn the potmeter to adjust the output level

2. Output link: RJ45 connector. Connect multiple DIMIC 1/12(S) units in a daisy chain. The maximum number of units depends on the capabilities of the master unit. Output (link) and input are internally hardwired to each other.

3. Input: RJ45 connector: connect the DIMIC 12 to the master unit using a standard CAT5 cable.

4. 24 VDC jack: connect an additional DC adapter here if the master unit is unable to supply the power for the required number of microphones. Consult the manual of your master unit for more details.

Please note that the combination of multiple mics and excessive CAT5 cable length will cause a substantial voltage drop on the CAT5 cable. In case of doubt, use a DC adapter as power source for the microphone/slave.

DIMIC1 has no zone selection knobs. Only the push-to-talk button is present. Configuration and default functionality depends on the master unit's possibilities. Ready-busy has the same functions as DIMIC12.

Using the DIMIC 1/12(S) for the first time

Default settings: out of the box, the DIMIC12 is set up as a 4-zone paging mic. Knobs 1 to 4 are configured as zone 1 to 4 selection knobs. Knobs 5 – 12 have no function (yet) and must be configured via the user interface of the master unit. The slave unit has no default settings and must be configured before use. Knob 13, marked "all zones", functions as an all zone paging knob. Knob 14, marked "selective" functions as a push-to-talk button.

LED messages: during power on, the DIMIC12(S) LEDs light up 5 times from bottom to top, left and right rows simultaneously, to indicate that the unit is performing a diagnostic self-check.

When the LEDs light up going up and down, left and right rows in opposite directions, the microphone is requesting an address from the master unit.

Confirm the request by pressing the "all zones" or "selective" button. The LEDs will stop blinking to indicate that the unit has been accepted by the master unit. The address is permanently stored in memory and can only be erased via the user interface of the master unit.

The behavior of the 12 knobs can be configured in the user interface of the master unit. It is possible to make the knobs work as latching or non-latching knobs, or to assign a special function, a preset containing preselected zones…

By default, the zone selection knobs work like this: when a zone is selected, the corresponding LED will light up. When the selected zone is being paged, the LED will blink. When paging is finished, the LED will go out and the unit is ready for a new selection. You

can also program the unit, so that the selected zone LEDs stay lit after paging. Consult the manual of the master unit for more details.

By using automated addressing, the master unit will recognize the microphone/slave, and will automatically recall the settings and functions of the push buttons after power up. When a new microphone is added to the system, you must configure the newly added microphone via the user interface of the main unit.

Do not connect a slave unit to the microphone unit when powered on. The slave unit will not be recognized and will not function when hot plugged!!!

Attention!

When a communication error occurs between microphone and master unit, or between microphone and slave unit, the LEDs of the microphone/slave will start to scroll continuously from bottom to top, left and right simultaneously, to indicate that communication has failed. Check all connections as well as the cycle power of the main unit and microphone/slave to restore normal functionality.

DIMIC1/12(S) cannot function unless properly connected to a compatible master unit!

Do not connect the microphone to a computer or other network. This will cause malfunctions and may cause damage to your network and/or microphone. You must connect the microphone to the master unit via the CAT5 cable.

RJ45 cable connections:

Pin 1: Audio + (balanced)

Pin 2: Audio – (balanced)

Pin 3: GROUND

Pin 4: not used

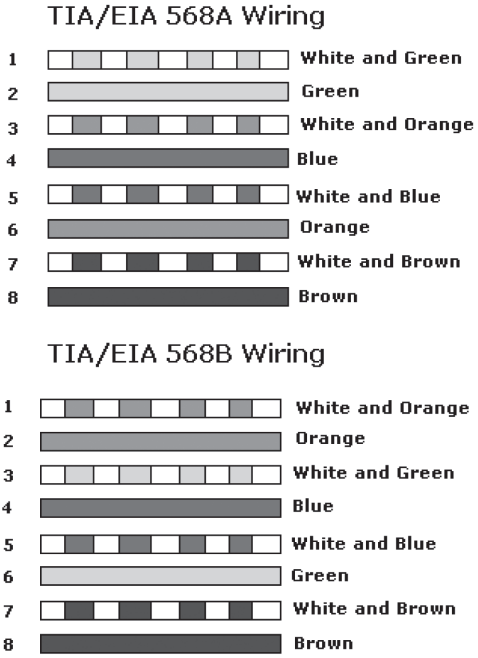
Pin 5: not used

Pin 6: 24 VDC power supply (max. 75 mA per mic or slave)

Pin 7: RS485

Pin 8: RS485

RJ45 standard wiring:



Specifications

Dimensions base (w x d x h)	110 x 240 x 58 mm
Cut-out dimensions	85 x 230 mm
Mic stem length including mic and windscreen (DIMIC1/12)	395 mm
Weight DIMIC1	600 g
Weight DIMIC12	650 g
Weight DIMIC12S	350 g
Power supply	12 – 24 VDC/75 mA max
Nominal sensitivity (DIMIC1/12)	85 dB SPL
Maximum sound pressure level (DIMIC1/12)	>110 dB SPL
Nominal output level (DIMIC1/12)	775 mV
THD (DIMIC1/12)	typical <0.5%
Frequency response -3 dB (DIMIC1/12)	220 – 20000 Hz (speech filter)
Lo-cut (DIMIC1/12)	220 Hz, 6 dB/oct
Accessories	Mounting brackets (Slave units only), link cable (Slave units only), manual, CAT5 cable 5 m, microphone (DIMIC1/12), windscreen (DIMIC1/12)

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