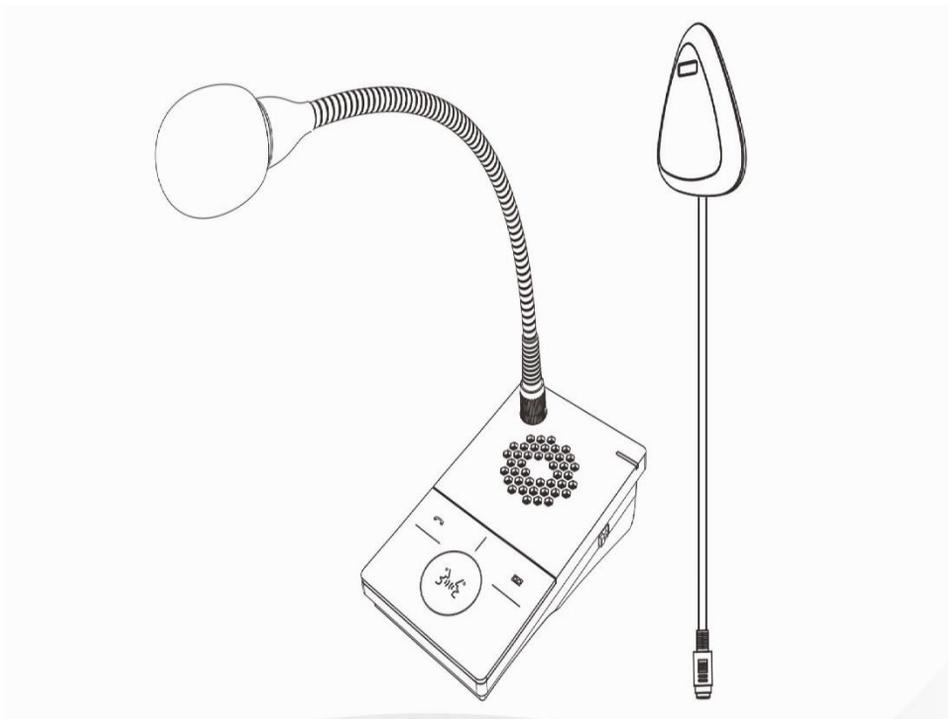




## Digital Window Intercom

# OP-6505/B



User Guide  
2020



# Contents

<b>Summary</b> .....	<b>3</b>
Safety precautions.....	4
Product introduction.....	5
Features.....	5
Hardware interface instruction.....	6
Packing list.....	7
Wiring.....	8
Basic function.....	9
Local intercom.....	9
Remote intercom.....	9
Scene mode adjustment.....	9
Engineer settings.....	9
Recording.....	10
Fault exclude.....	10
<b>Connect OP-6505B</b> .....	<b>11</b>
Connection diagram .....	14

# Summary

## Warning and Reminding



This symbol means there are potential safe troubles, it may cause death or serious injury with incorrect operation.



This symbol used to remind the user that this device attached the important operation and maintenance instructions.

## Setting and Installation

- Avoid wet by water.

Do not put the machine to be exposed to rain water or other liquid stained environment, otherwise it may lead to fire or get an electric shock.

- Do not use the other power voltage.

Using the device marked voltage to connect it.

It may lead to fire or electric shock if using the higher voltage.

- Do not scratch the power cord.

Don't scratch, cut or twist the power cord.

Please keep the power line far away from the heated object and do not put heavy things on it, otherwise it may lead to fires or electric shock.

## Using machine

- In case of the anomalies appears.

Please shut off the power supply immediately when finding the following abnormal phenomena within using, please contact with supplier. It may cause fires or electric shock if it's still using it.

When the device with smoking or strange flavor.

The device internal is invaded by water or other things. Device fall off or device shell is damaged.

The power cord is damaged (wire core is exposed or broken etc). Device fault (it can't connect network, no sound etc.).

- Do not open the device internal or modify the device Don't make other things invaded to the device internal.

Don't make the metal items or inflammable objects inserting to device internal, otherwise it will cause fires or electric shock.

- Do not touch when lightning

To avoid electric shock, please do not touch the device and the plug while lightning.

- Do not put the liquid container or metal object on the device

If the container is fall down and make the liquid permeate into the device, it will cause fire or electric shock.

- Do not open the device internal or modify the device

The device internal contains high voltage parts, once open the cover or modify the device, it may cause fires or cause shock.

All about device maintenance and modification should be operated by professional personnel.

- The notice for maintenance or long time without using

Please shut down the power and pull out the power line while maintenance or the device won't be used for 10 days or more.

It may cause electric shock or fires if do not make it.



Internal window intercom



Internal window intercom

## Features

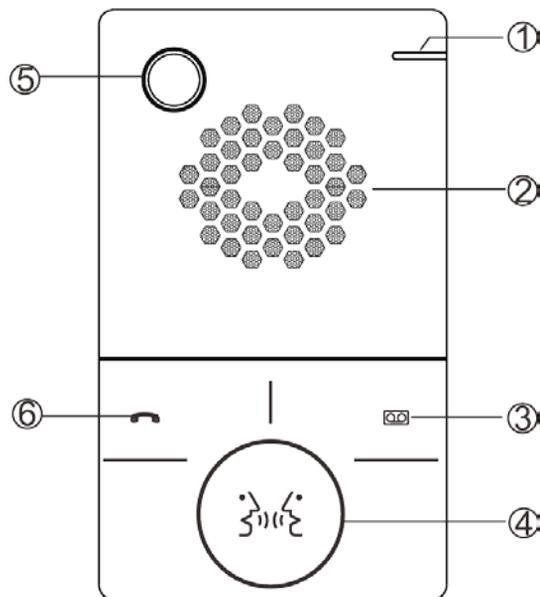
- Adopt single DSP multi-channel language auto-control technology, avoiding squeaking and disturb to realize real digital full-duplex intercom.
- Adopt full touchable transparent key design, keep intercom without disturb from key-click and keep it with the halo light on.
- Recognizing sound source, control environment noise, automatically adjust volume and restore the original sound.
- Providing three mode scene (quiet, standard, noisy), support one-key adjustment.
- Wiring external and internal intercom adopt one line to connect the desk, better solving the loosen caused by moving and keeping the desk more clear and beautiful.
- Professional cavity structure design, adopting hard metal cavity to prevent machine resonance, purify and naturalize the sound to transparent.
- Personalized and customized service language, manual broadcasting “Hello, welcome”, “Thank you welcome for next time coming”
- Support double recording mode and providing the recording output to HD recording host and DVR to process the third-party recording storage.
- LED distinguished show the real state of internal window intercom.

### Coordinate HD recording host function:

- Realizing remote calling and receive calling, hands-free intercom with central microphone.
- Remote central microphone can real-time monitoring window intercoms.
- Receiving remote one-way network broadcasting.
- Internal window intercom can make real-time recording by the record key and it will be stored on the HD recording host.
- Remote upgrading the firmware of window intercom in the HD recording host web page.

## Hardware interface instruction

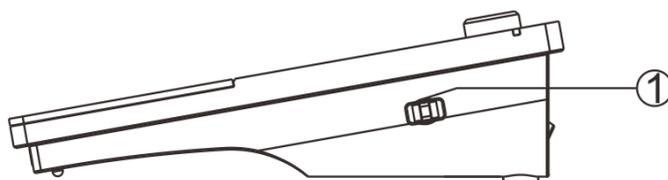
### Internal window intercom



【Front view】

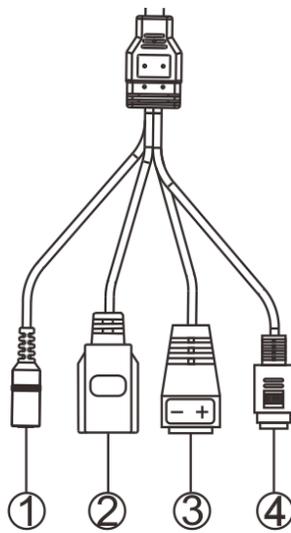
- ① Working indication light: red light is offline, green light is online
- ② Loudspeaker: amplify the local intercom audio.
- ③ Recording key: make a recording when press the key at the first time, finish the recording by press again, the recording key will quickly red flashed in the recording process.
- ④ Intercom key: press the key to intercom with external window intercom, finish the intercom by press again, the green intercom key will be light on.
- ⑤ Microphone pole socket: plug the microphone pole, collecting local intercom audio.
- ⑥ Voice broadcasting key remote intercom key:  
 Voice broadcasting: Press voice broadcast key to automatic play voice prompt in the process of intercom with window external terminal, press shortly to prompt "Hello, welcome", long press for a while to prompt "Thank you, welcome to come next time.". The broadcasting key green flashed during the process of broadcasting.  
 Remote intercom: coordinate with HD recording host to use, click this key to call named terminal by server in the online condition.

【Side view】



- ① Scene mode regulating switch:3 scene mode adjustment 【noisy (1) 、 standard (2) 、 quiet (3) 】 , defaulted as standard mode.

#### 【connection wiring】



- ① Power interface: connect with DC12/2A power.
- ② Communication interface : connect with the network HD recording host.
- ③ Analog audio input interface: output analog audio, connect with DVR or camera.
- ④ External window intercom interface.

**【External window intercom】**

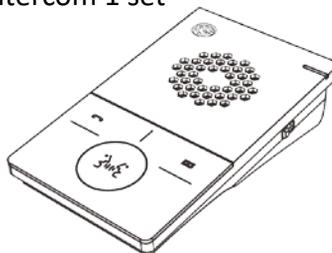


- ① Loudspeaker/MIC :  
Loudspeaker : amplify the local intercom audio ; MIC : pick up the local intercom audio ;
- ② Internal window intercom interface

**Packing list**

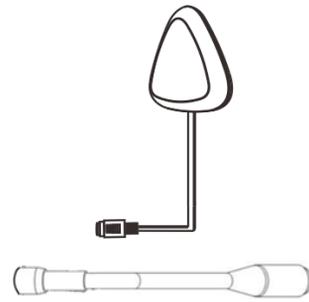
Window intercom system include following accessories, please check following parts, please contact with distributor if any parts are missing.

- (1) Internal window intercom 1 set

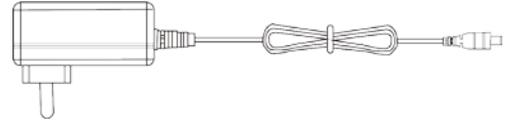


- (2) External window intercom 1 set

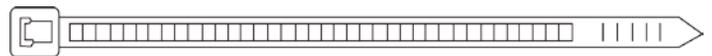
(1) Microphone pole 1 pcs



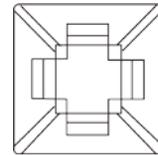
(2) Power adapter 1 pcs



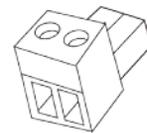
(3) Wiring harness (3\*100mm) 3 pcs



(4) Cable clamp (HC-100) 3 pcs



(5) Wiring connector (3.81-2P) 1 pcs



(6) Quick installation manual 1 pcs

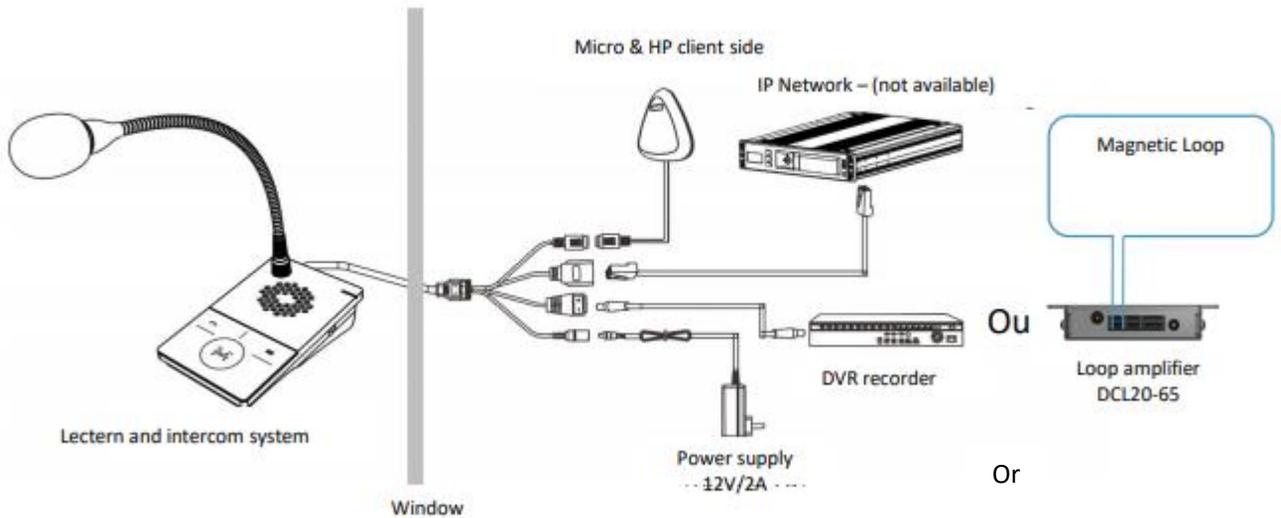


## Wiring

(1) Connect the one port of power adapter to the power interface of internal window intercom, the other port connect with power socket.

(2) Connect interface of external window intercom with internal window intercom.

(3) Connect the one port of Ethernet to internal window communication interface and the other port connect to HD recording host (only suitable for online environment).



## Basic function

### Local intercom

After connected internal window intercom and external window intercom, then power-on. Press the intercom key of internal window intercom, it can digital full duplex HD intercom with external window intercom, press again to stop intercom.

### Remote intercom

Used with HD recording host, under the online status, press remote intercom key to call the server pointed terminal.

### Scene mode adjustment

Window intercom provides three scene modes: Noisy (1), Standard (2), Quiet (3) ; the default mode is standard mode.

#### Incoming prompt tone:

Press voice broadcast key to automatic play voice prompt in the process of intercom with window external terminal, press shortly to prompt "Hello, welcome", long press for a while to prompt "Thank you, welcome to come next time.". To finish the audio note broadcast by long press this key or click other keys.

#### Engineer settings:

First your device need to be off, then press simultaneously the intercom button  and on the voice broadcasting key remote intercom key  for few seconds.

Once the device turn on, the middle key should flash and the two other keys should be light on. For adjusting the volume on the agent side, press briefly the key  for turning up or press for a long time for turning down.

For adjusting the volume on the public side, do the same manipulation with  key.

For leaving the engineer settings, press the key  for five seconds.

## **Recording**

### **Analog recording**

Window internal intercom can output analog audio, and it is ok for connect with the DVR to make auto-recording.

## **Fault exclude**

### **Why the terminal can not talk with others?**

1. To realized talking with other terminals, it must be through HD recording host. Check whether connect with HD recording host.
2. Check server mapping settings is right or not.

### **Why recording host can not login to the server?**

1. Check whether connect with HD recording host.
2. Check the software server and the main controller is normal opened or not. It is required to close all firewall before open the software server (including system built-in firewall and other antivirus software firewall).
3. Check the terminal network cable and switcher whether work normal, damaged, and disconnect or not etc;
4. Check the HD record host settings, please check the terminal ID...etc parameters.

## **Connect DCL20-65 Loop Amplifier (for OP-6505B Versions)**

The DCL20-65 is an induction loop kit that can be used to equip counters or reception desks. The system allows to meet the restrictions of the law of european equal treatment directives while respecting the requirements of EN60118-4. The set is designed to offer accessibility to hearing- impaired equipped with a T-position on their hearing aid.

The amplifier is designed to be discreetly attached under a desk or counter. It is equipped with two inputs, settings and LEDs indicating the presence of power supply and loop current.

The device incorporates an audio processing to have an automatic control of the sound levels, avoiding loud and sudden noises.

## Installation



### Note:

The wire supplied in the DLC20-65 kit ensures the quick installation of a magnetic loop system in a reception desk, counter or cash desk.

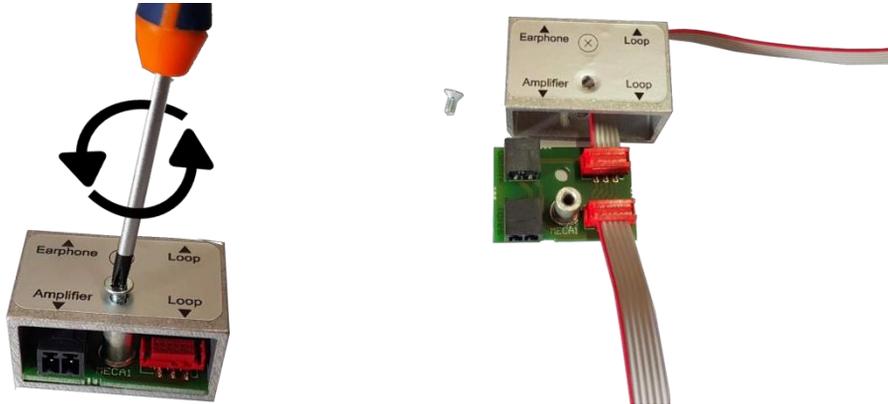
In order to optimize the radiation of the magnetic field and to guarantee a better result the wire should be placed close to the customer.

## Composition and assembly of the loop

The loop consists on the following 3 elements: a loop cable, a loop adapter and a connecting cable.

The loop is ready but it is possible to disassemble it to adapt it to the reception desk. See below.

To disassemble the loop that will equip the counter, first unscrew the support of the electronic card.



Connect the beginning and the end of the loop cable to the circuit board (red connector).

Then plug the 50-70 cm connecting cable supplied to the "amplifier" connector of the adapter and to the "Loop" terminal block of the amplifier.

Your loop is now created and connected.

## Installation of the loop in the counter

There are 3 possibilities to place a loop in a counter as described below, however we strongly advise you to use the first version

**1.** Place the loop on the vertical and horizontal portion of the counter as shown in figure 1. This type of installation ensures better coverage in front of the counter.

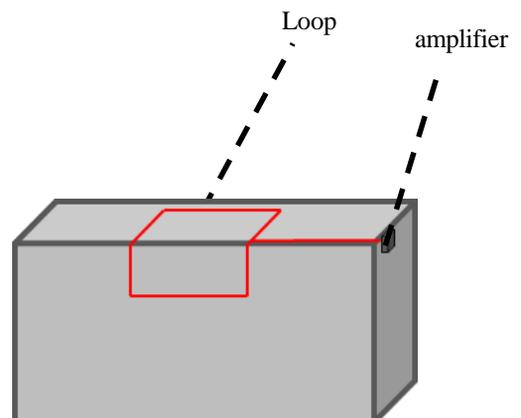


Figure 1.

2.Position the loop on the horizontal counter-top by positioning the cable closest to the customer.

3.Install the loop on the vertical countertop by positioning the cable closest to the customer.

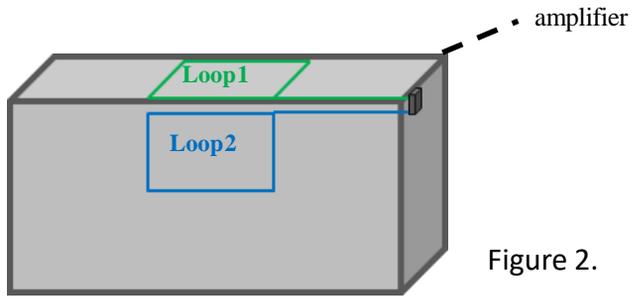
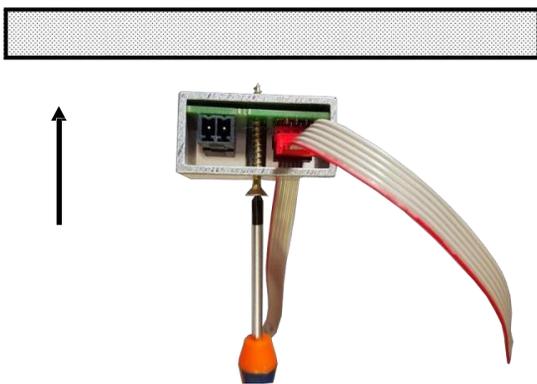


Figure 2.

Set the loop using the binding clips supplied for this purpose. For better durability, it may be appropriate to install the loop in a plastic chute.

Then connect the connecting cable to the terminal block "amplifier" of the connector on the terminal block "loop" of the amplifier. Screw the connector on the cross.



**Attention, warning, danger:**



The loop must not be positioned under a metal structure. The magnetic field would be absorbed by the metal mass and would not equip the counter properly. There are other solutions for installing a loop in a metal counter (see figure 3)

For greater coverage around the counter, it is possible to install a cable on the floor. The loop can be placed in the slab (over the wire mesh), under a coating (parquet, carpet, ... etc) using a copper tape or glued under a carpet as shown in figure 3 .

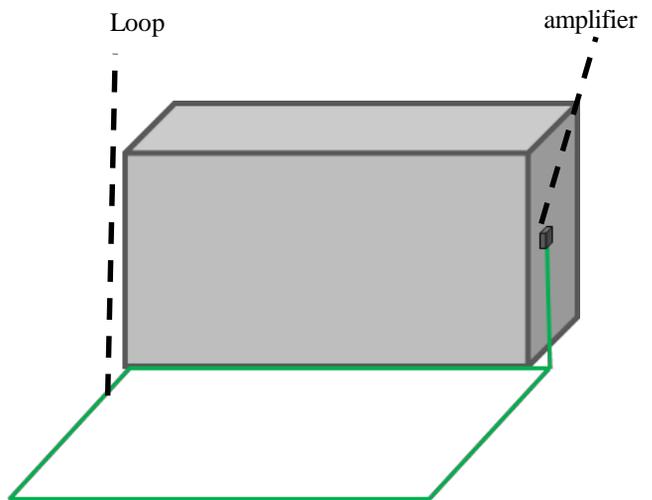


Figure3.

The wire supplied in the DCL20-K kit produces a magnetic field radiating on a perimeter of 1.2m which allows a people to receive the signal comfortably.

The pictogram with an integrated loop can be fixed on the desk and turned to the customer's side to avoid disturbances due to metal (see Figure 4).

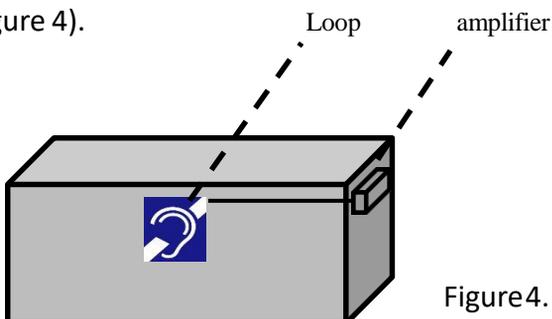
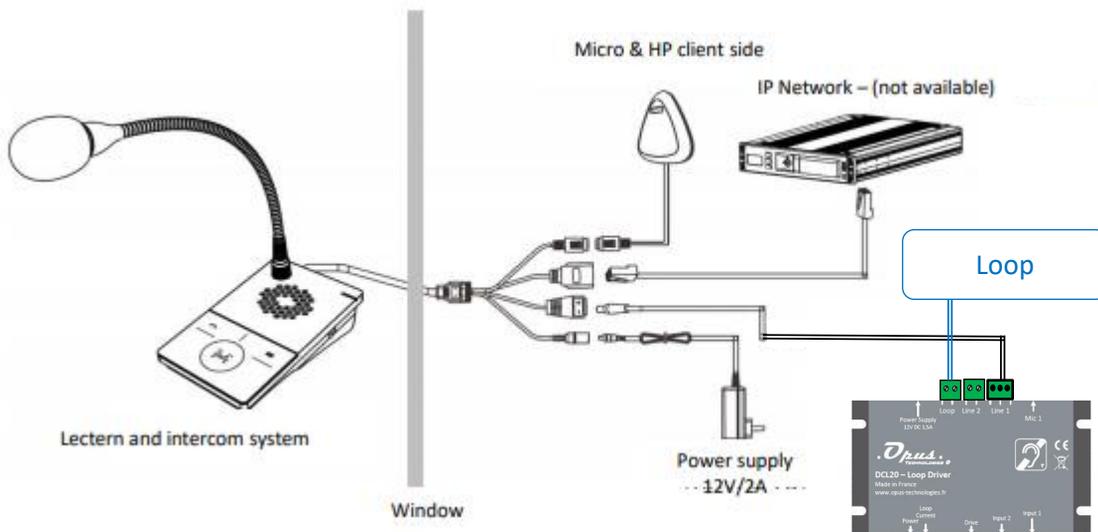


Figure4.

## Connect DCL20-65 to the main unit



## General connection

To connect the supplied microphone with the kit, insert the 3.5 jack into the microphone input 1.

Connecting to an intercom or specific source: Connect your source to input 2 of the DCL20. This input supports the following sources: line, low impedance and 100V with an adapter.

### Micro input 1:

Type : Jack 3,5

Feature: phantom power

### Input ligne 1:

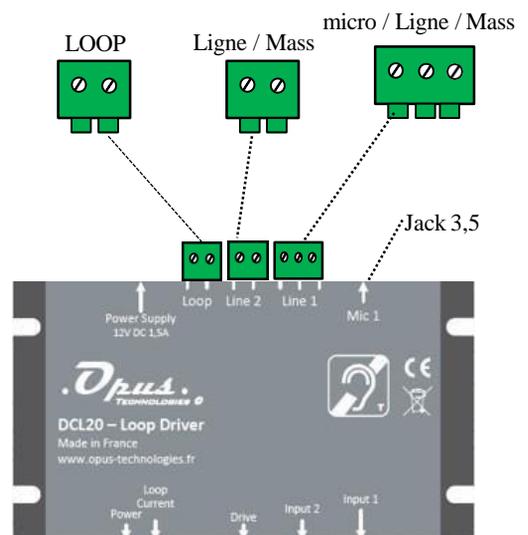
Type: Terminal Block

Input type: Line or microphone, screw connection.

### Input 2:

Type: Terminal Block

Input type: Line /low impedance/ 100V with an adapter.



## Conversion tables

In this manual, SI units are used to express lengths, masses, temperatures etc. These can be converted to non-metric units using the following information.

Table 1: length units conversion

25,40 mm = 25,4 mm	1 mm = 1,00000
25,40 mm = 2,54 cm	1 cm = 0,3937 po
30,48 cm = 0,3048 m	1 m = 3,281 pd
1 ml = 1,609 km	1 km = 0,622 ml

Table 2: Mass units conversion

$$1 \text{ lb} = 0,4536 \text{ kg} \quad 1 \text{ kg} = 2,2046 \text{ lb}$$

Table 3: Pressure units conversion

$$1 \text{ psi} = 68,95 \text{ hPa} \quad 1 \text{ hPa} = 0,0145 \text{ psi}$$

Table 4: temperature units conversion

$$^{\circ}\text{F} = 9/5 \cdot (^{\circ}\text{C} + 32) \quad ^{\circ}\text{C} = 5/9 \cdot (^{\circ}\text{F} - 32)$$



**Note:**

1 hPa = 1 mbar





Tél : 09.81.24.00.06

Mail: [contact@opus-technologies.fr](mailto:contact@opus-technologies.fr)

Opus Technologies — ZI Lagrange II — 9 Chemin de la Vieille Ferme — 33650 MARTILLAC