



WIDE-GATE CONFIGURATION

DynaPCN 10-xx

Passenger & People Counter

Rev 1-0 – 28 February 2018 – DYPCN-10-xx_WideGate_EN_1-0 – ENGLISH

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Revision history

Revision	Description	Date
1-0	First release	28 February 2018

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1 How to assemble the Wide-gate configuration

1.1 What is a Wide-gate configuration?

Typically, a single DynaPCN installed 200 cm above the floor, allows you to detect gates having widths of about 160 cm.

If the gate is wider you may need to connect together two or more DynaPCN devices.

This multiple connection is called “Wide-gate” configuration, and requires a Master device and one or more Slave devices:

- The Master device can be: a PCN-1001 (DynaPCN 10-01-00), a DynaPCN 10-20-00, or a DynaPCN 10-20-01
- The Slave device must be a PCN-1001 (DynaPCN 10-01-00).

The relation between the number of required DynaPCN devices and the width of the gate is the following:

Width of the gate	Number of required DynaPCN devices
Up to 160 cm	1x (Master)
Up to 240 cm	1x Master + 1x Slaves
Up to 320 cm	1x Master + 2x Slaves
Up to 400 cm	1x Master + 3x Slaves
Up to 480 cm	1x Master + 4x Slaves
Up to 560 cm	1x Master + 5x Slaves

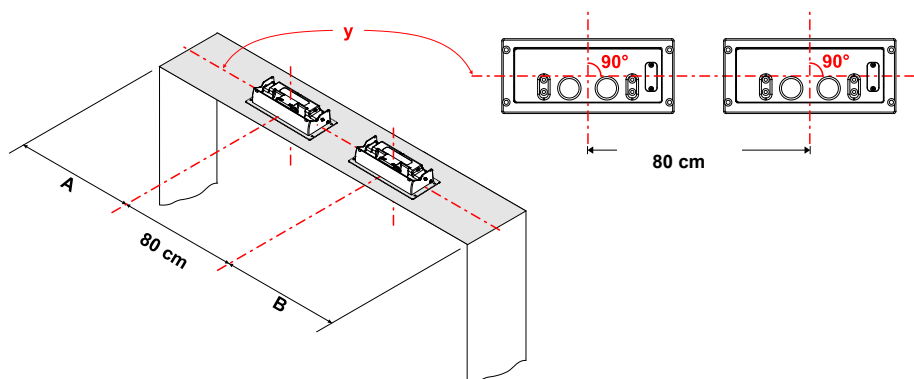
The maximum recommended number of DynaPCN that can be connected together is 6 (1x Master + 5x Slaves).

1.2 How to install 2 or more devices in Wide-gate configuration

When installing two or more devices in Wide-gate configuration:

- Keep the devices aligned with respect to the gate
- Keep a distance of 80 cm between the centres of the devices
- Mount the group of devices in the centre of the gate ($A=B$).

For more information about how to connect Master and Slave devices refer to the document: "DynaPCN Connection Diagrams".



1.3 Note about devices connected in Wide-gate configuration

The figure below shows 3 types of Wide-gate configuration, all managed by the same Control Unit (for example the Host PC).

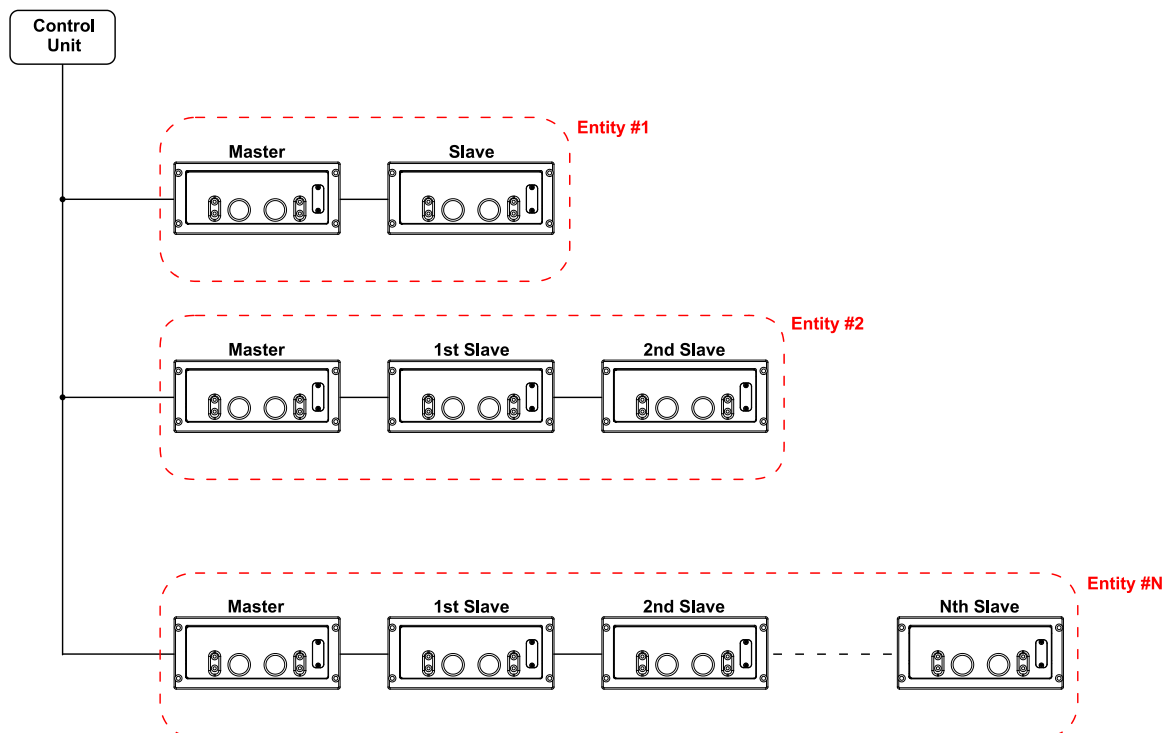
The Control Unit detects each Wide-gate configuration as an entity:

- Entity #1
- Entity #2
- ...
- Entity #N.

All the DynaPCN devices of same entity have the same IP address.

The Master devices can be set with user-defined parameters.

The Slave devices must maintain the factory default parameters instead: they are managed by the Master device.



1.4 Note about the door sensor

The door sensor input has to be connected to the Digital Input of the Master DynaPCN.

2 How to set up the Wide-Gate parameters

To set up the DynaPCN parameters for the Wide-Gate configuration, complete the following steps:

1. Restore the factory settings.

Use WinClient to restore the factory settings in each DynaPCN device (Master and Slaves) that you are connecting in Wide-Gate configuration.

For more information about the restore procedure see the respective DynaPCN user manual. If you don't perform a restore before configuring the "Wide-gate" mode you may receive the following error:



2. Wire properly all the DynaPCN devices.

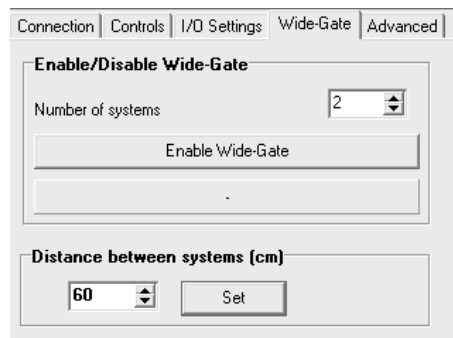
For more information see the document "DynaPCN Connection Diagrams".

3. Connect your Host PC via the USB port to the Master DynaPCN.

For more information see the user manual of your Master device.

4. Set the Wide-Gate configuration parameters.

- a) Using WinClient connect the DynaPCN Master
- b) Select the **Wide-Gate** tab:



- c) Insert the number of systems connected together (example: Master + Slave = 2)

- d) Set the distance between the systems (in cm)

- e) Click **Enable Wide-Gate**

- If any problem occurs a "Wide-Gate Error" will appear.
Check for the cable connections. Check you have not selected a higher system number than actually connected/available
- If all is ok a confirmation message will appear

5. Disconnect your Host PC.

Select the **Connection** tab and click **Disconnect**

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6. Cycle the power on all the DynaPCN devices.

Cycle the power on all the devices and wait for the devices to boot.

When the boot is completed all the devices are ready for “Wide-Gate” counting operations

7. Set the configuration parameters.

Connect the Host PC to the Master DynaPCN with WinClient, and set the configuration parameters (In/Out direction, door threshold, light intensity, etc.). The Master DynaPCN will redirect the settings to the slave devices.

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Notes

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