

Data sheet **Citygrid** **Dongle**

The Citygrid Dongle is the commissioning tool which, in combination with the Citygrid Configuration app, allows for configuration of a Citygrid enabled installation.



The Citygrid Dongle is used to wirelessly connect an Android device, running the Citygrid Configuration app, to any Citygrid controller for commissioning purposes.

A Citygrid installation can consist of any combination of the Citygrid Controllers including the Citygrid Zhaga Controller, Citygrid Zhaga with Sensor, Citygrid On Pole Controller and the InFix24 controller. Operation of the installation can be as standalone (non-connected) or connected to the Citygrid cloud solution using the Citygrid Gateway.

BENEFITS

- Intuitive one-button-operation
- Pocket size
- Adds an extra layer of security

FEATURES

- Bridges any Android device to the Citygrid wireless mesh
- Battery operation last >8 hours
- Micro USB-rechargeable (built in battery)
- Intuitive battery level indicator
- FW over-the-air upgrades

ELECTRICAL CHARACTERISTICS			
Specification item	Value	Unit	Condition
Universal Micro USB input voltage	5	V _{dc}	± 10%, Micro USB charging
Universal Micro USB charging current	300*	mA	Maximum
Power consumption	300	mW	~ 8 hours of operation
Battery type	Lithium-Ion		Rechargeable Automatic Standby Non-replaceable
Battery capacity	2350**	mAh	Typical

*Internal current limited. Charge dongle with a normal USB charger or computer
** At 25 °C

TEMPERATURE & HUMIDITY			
Specification item	Value	Unit	Condition
Charge temperature	+10 to +45	°C	Ambient
Operational temperature	-20 to +60	°C	Ambient
Storage temperature	-20 to +60	°C	Ambient
Relative humidity	10-90	%	Non condensing. For use up to 2000m above sea level

PROTECTION			
Specification item	Value	Unit	Condition
ESD protection	4	kV	Human-Body-Model

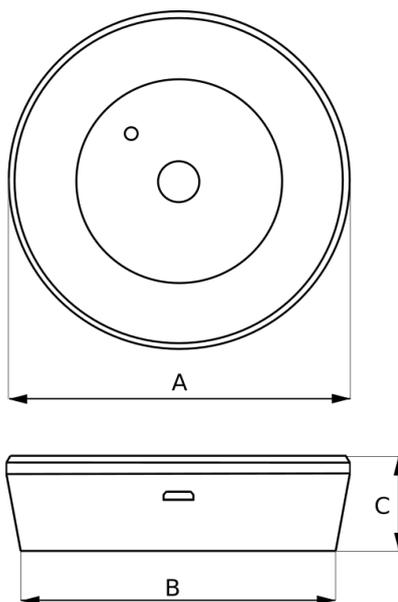
WIRELESS COMMUNICATION (Citygrid Dongle - Citygrid Controllers)			
Specification item	Value	Unit	Condition
Frequency Range	868,3	MHz	
Standard	IEEE 802.15.4		
Protocol	6LowPAN		
Encryption	AES-128		

Over-the-air firmware update	Yes		
Recommended maximum distance between Citygrid Dongle and Citygrid Controller	~ 60	meter	Luminaire design and antenna placement subject to influencing range

WIRELESS COMMUNICATION (Citygrid Dongle - Android Device)			
Specification item	Value	Unit	Condition
Frequency Range	2,402-2,480	GHz	
Protocol	Bluetooth 4.1		
Encryption	AES-128		
Android device, Operating system	7.0		Or higher
Android device, Bluetooth version	7.0		Or higher

APPROVALS	
Directive:	Standard:
Radio Equipment Directive (RED): 2014/53/EU	EN 301 489 -1 V2.1.1
	EN 301 489-3 V2.1.1
	EN 301 489-17 V3.1.1
	EN 300 328 V2.1.1
	EN 60950-1: 2006 + A1, A11, A2. A12
RoHS Directive: 2011/65/EU	EN 50581:2012

DIMENSIONS & WEIGHT			
Item	Value	Unit	Comment
A	87	mm	Length
B	82	mm	Height
C	23	mm	Width
Weight	0,107	kg	



LOGISTIC DATA	
Specification item	Value
Product Name	Citygrid Dongle
Seneco Order number	24002
Fagerhult Article number	86490
Parts	Citygrid Dongle and USB to Micro USB charging cable 1m
Pieces per box	1

OPERATION

The Citygrid Dongle has one button and one LED light

Action	Input	LED light
Turn on	Press and hold button for 1 sec	Constant white then followed by a sequence of colors
Turn off	Press and hold button for 3 sec	Light turns off
Connect to Citygrid Dongle	Select the Dongles ID in the Citygrid App Bluetooth is activated as soon as the Dongle is turned on	Light turns blue
Check battery status	Press the button	Green = Full charge Yellow = Medium charge Red = Low charge If the battery is nearly discharged the LED turns red. You will also get a warning in the Citygrid App

WARRANTY AND EXPECTED LIFETIME

Specification item	Value
Warranty	2 years



CAUTION

- Do not use the Citygrid Dongle with damaged housing and/or connectors
- Do not use the Citygrid Dongle with damaged wiring

Warranty and further information: www.seneco.dk

