

# impHub Quick Start

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## **Installation Steps**

- 1. Unbox your impHub appliance and note the appliance number and building name on the commissioning checklist (included at the end of this document).
- 2. Install your impHub in the BMS cabinet of the named building.
  - The impHub is DIN Rail mounted (see figure 1) and requires a 24V DC PSU at 17W, which you must provide (see figure 2). The operating conditions are specified in figure 3.
- 3. Connect your laptop with an ethernet cable to the impHub ethernet port 1 (the upper port, see figure 4), this is fixed to IP 192.168.1.1.
  - You need to configure your laptop ethernet address to a fixed address in the subnet 192.168.1.X for example 192.168.1.2
- 4. Use a web browser (e.g. Google Chrome or Microsoft Edge) on your laptop to connect to the impHub Engineering Console by typing the impHub's fixed IP address into the address bar: <u>https://192.168.1.1</u>
  - You need to override the security exception from the web browser (screenshots 1 & 2). The security exception occurs because the appliance is addressed by IP, so it is not possible to specify a domain name certificate.
- 5. Login to the impHub Engineering Console (screenshot 3) using the username and password printed on the side of the impHub
- 6. Connect the impHub's ethernet port 2 (the lower port) to your local ethernet router
- 7. Ask your network engineer to assign a fixed IP for the impHub and setup your firewall to allow outbound internet access from the impHub's IP
  - You may choose to use DHCP, provided outbound access is configured for dynamically allocated addresses and an IP is reserved for the hub.
- 8. Configure the IP address of the impHub's ethernet port 2 (the lower port) to either a fixed IP or DHCP. See Screenshot 4, Home Page, Network Settings Button.

#### Gridimp will Support Remotely with the following steps

- 9. Use the Engineering Console "Monitoring and Control" and "Device Configuration" pages to configure your hub to connect to energy meters and control points. See Screenshot 4, Home Page, Add Devices box.
- 10. Once you have finished configuring the hub press the "Commission-Hub" button in the console, you can still make changes after you have gone live
  - Pressing the Commission-Hub button will cause the impHub to start observing the system, gathering energy and temperature data and sharing it with impCloud, this allows your Energy Manager or Facilities Managers to see the data in the Gridimp cloud console (<u>https://cloud.gridimp.com</u>).
- 11. Verify the responses of your controlled equipment using the "Test Actions" page in the engineering console
- 12. Complete your commissioning sheet, then scan and send copies to info@gridimp.com and your client.
  - The energy manager will need to add the tariff, operational hours and latitude, longitude information to the appliance in the Gridimp cloud dashboard, to allow the hub to act on energy prices and participate in flexibility markets. This is why it is important both the appliance-id and building name are included and correct on the commissioning sheet.



#### Dimensions



Figure 1: Physical Dimensions

#### **PSU Specification**

- Power Input Range: 12 ~ 24 VDC, 1.39 ~ 0.72A (16.68~17.28W)
- Protection: OVP(±20%), reverse protection

Figure 2: PSU Specification



### **Operating Conditions**

Operating Temperature	-20°C ~ +70°C (-4°F ~ +158°F) -40°C ~ +70°C (-40°F ~ +158°F) (IC0120-WT)
Humidity	10% ~ 95%
Vibration Endurance	2 Gms (5 ~ 500Hz, amplitude 0.35 mm; operation/storage/ transport)
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)
Certificate	CE FCC Class A
Dimensions	31 mm (1.22") (W) x 100 mm (3.93") (D) x 125 mm (4.92*) (H)

### Figure 3: Operating Conditions



Figure 4: impHub front panel





Screenshot 2: Security Warning Part 2

impHub Console × +		- 0
→ C △ ▲ Not secure   192.168.1.1/login	- / / 2	÷ • ■ 3
	၀ါ၀	
	grillaime	
	ImpHub Console	
	Username	
	Password	
	Login	

Screenshot 3: Login Page





Screenshot 4: Home Page, Getting Started



## **Commissioning Checklist**

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\_\_\_\_\_ (e.g. Gridimp111)

Building N	lame:
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\_\_\_\_\_ Installation Date: \_\_\_\_\_

PSU		Yes / No		
Compliant power suppli	ed installed according to regulations			
Networking		Yes / No	IMPCLOUD	
Hub is networked with o	outbound web communications		CONNECTED	
See home page "IMPCLO	DUD" box			
Write down the local IP	of the hub, or "DHCP" for dynamic allocation	IP:		
See Settings/Network				
Configured Meter	ring	Device-ID:		
Main meter configured,	write down the device-id of the main meter	2 01.00 121		
See Monitoring and Con	trol			
Scaling of main meter ve	erified	Yes / No		
		,		
Plant meter configured	write down the device-id of the plant meter	Dovice ID:		
See Monitoring and Con	trol	Device-ID.		
Scaling of plant meter ve	erified	Yes / No		
live readings See Device	configuration			
Configured Contro	ol Devices	Ves / No		
One or more controllabl	e devices added with no husiness-critical load controllable			
See Device Configuration	n			
Go-Live Complete	h	Yes / No		
See home page "STATUS	5″ box	100 / 110	LIVE	
			LIVL	
Tested Control Ac	tion	Yes / No		
One of more controllable devices tested		, -		
See "Test Actions" page				
Test1	Tested Device-IDs:	Load-shift ID	:	
		Meter Device	ID:	
		Success: Ves / No		
		Success: Yes / NO		
Test2	Tested Device-IDs:	Load-shift ID:		
Meter Dev		Meter Device	e-ID:	
			/ No	
		Success. Tes		
Test3	Tested Device-IDs:	Load-shift ID:		
		Meter Device-ID:		
		Success: Tes / No		
1		1		

Installing Engineer Name:

Installing Engineer Signature: \_\_\_\_\_