

# *DrayTek*

## VigorSwitch G1282/P1282/P1281x Web Smart Managed Switch



### Quick Start Guide

V1.3

# VigorSwitch G1282 / P1282 / P1281x

## Web Smart Managed Switch

### Quick Start Guide

Version: 1.3

Firmware Version: V2.8.5 (for G1282, P1282)

Firmware Version: V2.9.2 (for P1281x)

(For future update, please visit DrayTek web site)

Date: February 29, 2024

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**Safety Instructions**

- Read the installation guide thoroughly before you set up the switch.
- The switch is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the switch yourself.
- Do not place the switch in a damp or humid place, e.g. a bathroom.
- Do not stack the switches.
- The switch should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.
- Do not expose the switch to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.
- Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.
- Do not power off the device when saving configurations or firmware upgrades. It may damage the data in a flash. Please disconnect the Internet connection on the device before powering it off when a TR-069/ ACS server manages the device.
- Keep the package out of reach of children.
- When you want to dispose of the switch, please follow local regulations on conservation of the environment.

**Warranty**

We warrant to the original end user (purchaser) that the switch will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

**Regulatory Information**

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device may accept any interference received, including interference that may cause undesired operation.

USA Local Representative	Company name	ABP International Inc.		
	Address	13988 Diplomat Drive Suite 180 Dallas TX 75234		
	ZIP Code	75234	E-mail	itadmin@abptech.com
	Contact Person	Mr. Henry N Castillo	Tel.	(972)831-1600 140

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. More updates, please visit [www.draytek.com](http://www.draytek.com).

# 1. Package Content



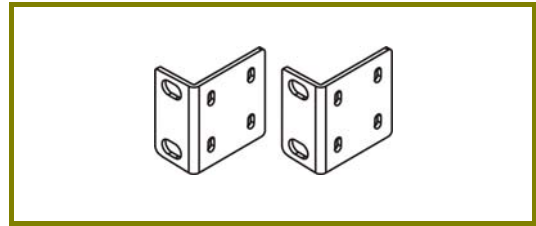
VigorSwitch G1282 (without PoE)



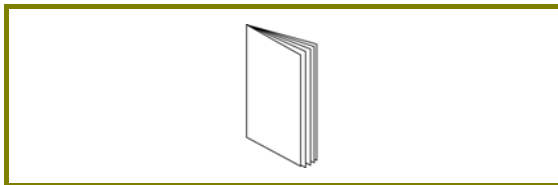
VigorSwitch P1282 (with PoE)



VigorSwitch P1281x (with PoE)

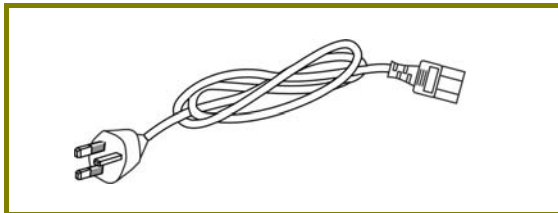


Rack Mount Kit (brackets)

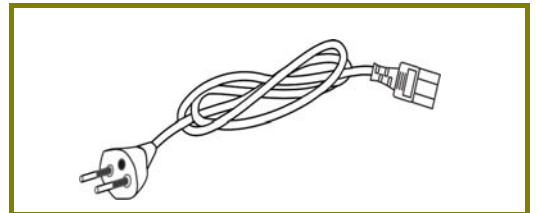


Quick Start Guide

The type of the power cord depends on the country that the switch will be installed.



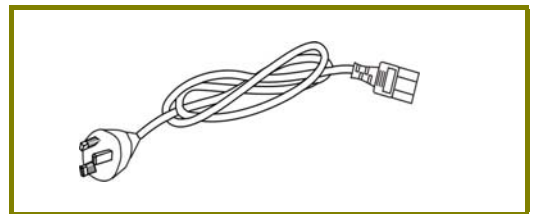
UK-type Power Cord



EU-type Power Cord



USA/Taiwan-type Power Cord

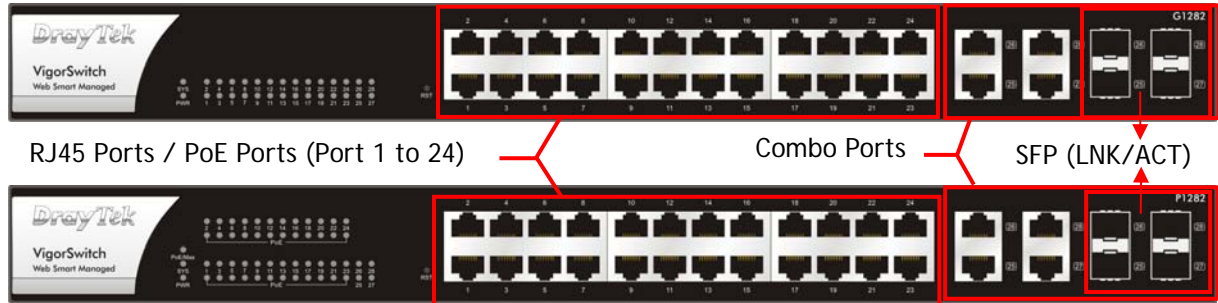


AU/NZ-type Power Cord

If any of these items is found missing or damaged, please contact your local supplier for replacement.

## 2. Panel Explanation

### 2.1 Panel for VigorSwitch G1282/P1282




RJ45 Ports / PoE Ports (Port 1 to 24)

Combo Ports

SFP (LNK/ACT)

LED	Status	Explanation
PoE/Max (P1282)	On (Green)	Connected over the PoE maximum power budget.
	Off	Connected within the PoE maximum power budget.
SYS	On (Green)	The switch finishes system booting and the system is ready.
	Blinking (Green)	The switch is powered on and starts system booting.
	Off	The power is off or the system is not ready / malfunctioning.
PWR	On (Green)	The device is powered on and running normally.
	Off	The device is not ready or is failed.
PoE Port (1~24)	On (Green)	The port is supplied with PoE power.
	Off	No PoE power is supplied on the port.
RJ45 Port (1~24)	On (Green)	The device is connected
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
Combo Port (25 ~ 28) RJ45 / SFP	On (Green)	The device is connected with 1000Mbps.
	On (Amber)	The device is connected with 10/100Mbps.
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
Interface		Description
RJ45 Port (1~24) / PoE Port (1~24)		Port 1 to Port 24 can be used for Ethernet connection and PoE connection, depending on

	the device connected.
Combo Port (25-28)	Port 25 to Port 28 are used for fiber connection.
	Power inlet for AC input (100-240V/AC, 50/60Hz).



#### Note

The following limitation is suitable for VigorSwitch P1282

Power Output --

- IEEE 802.3af Max. 15.4W Output Supported
- IEEE 802.3at Max. 30W Output Supported


PoE Power Budget --

- 400 Watts (Max) for VigorSwitch P1282

## 2.2 Panel for VigorSwitch P1281x



LED	Status	Explanation
PoE/Max	On (Green)	Connected over the PoE maximum power budget.
	Off	Connected within the PoE maximum power budget.
SYS	On (Green)	The switch finishes system booting and the system is ready.
	Blinking (Green)	The switch is powered on and starts system booting.
	Off	The power is off or the system is not ready / malfunctioning.
PWR	On (Green)	The device is powered on and running normally.
	Off	The device is not ready or is failed.
PoE Port (1~24)	On (Green)	The port is supplied with PoE power.
	Off	No PoE power is supplied on the port.
RJ45 Port (1~24)	On (Green)	The device is connected
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.
SFP	On (Green)	The device is connected with 100Mbps.
	On (Blue)	The device is connected with 10G.
	Blinking	The system is sending or receiving data through the port.
	Off	The port is disconnected or the link is failed.

Interface	Description
RJ45 Port (1~24) / PoE Port (1~24)	Port 1 to Port 24 can be used for Ethernet connection and PoE connection, depending on the device connected.
SFP Port (25~28)	Port 25 to Port 28 are used for fiber connection.
	Power inlet for AC input (100~240V/AC, 50/60Hz).



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**Note**

The following limitation is suitable for VigorSwitch P1281x

Power Output --

- IEEE 802.3af Max. 15.4W Output Supported
- IEEE 802.3at Max. 30W Output Supported

PoE Power Budget --

- 140 Watts (Max)
-



### 3. Hardware Installation

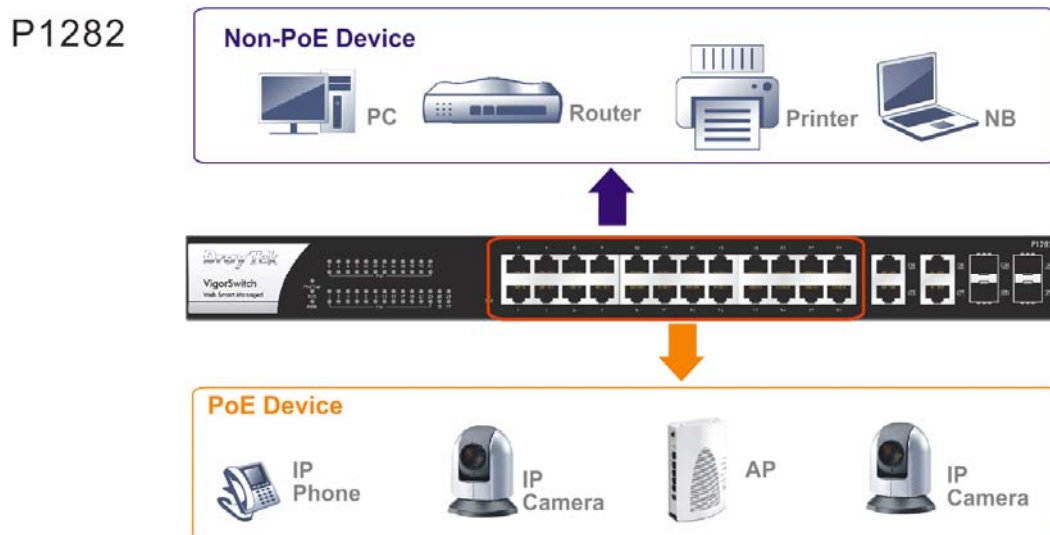
Before starting to configure the switch, you have to connect your devices correctly.

#### 3.1 Network Connection

##### For Non-PoE device and PoE device

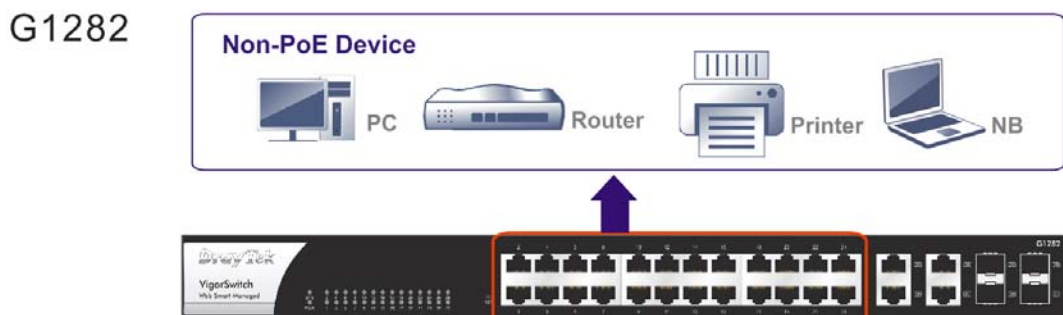
- Use a Cat. 5e twisted-pair cable to connect a PoE device to the port (1~24) of this switch.
- The switch will supply power to PoE Device over the twisted-pair cable.
- Please note that Power Device must comply with IEEE 802.3af/at.
- Other PCs, servers and network devices can be connected to the switch using a standard 'straight through' twisted pair cable.

Here, we take VigorSwitch P1282 as an example.



##### For Non-PoE device only

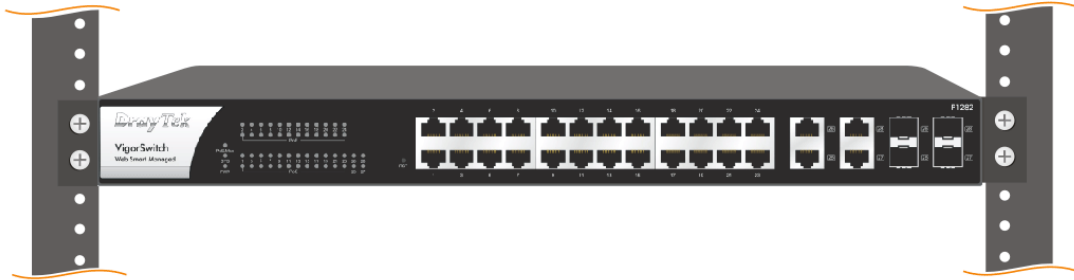
- Use the Ethernet cable(s) to connect Non-PoE devices to the Vigor switch.
- All device ports are in the same local area network.



### 3.2 Rack-Mounted Installation

The switch can be installed easily by using rack mount kit.

1. Fasten the rack mount kit on both sides of the VigorSwitch using specific screws.
2. Then, install the VigorSwitch (with rack mount kit) on the 19-inch chassis by using other four screws.



Here, we take VigorSwitch P1282 as an example.

## 4. Software Configuration

In this section, we take VigorSwitch P1282 as an example:

VigorSwitch, for example:  
IP Address: 192.168.1.224  
Subnet Mask: 255.255.255.0  
Default Gateway: 192.168.1.254



Assign a reasonable IP Address, for example:  
IP Address: 192.168.1.100  
Subnet Mask: 255.255.255.0  
Default Gateway: 192.168.1.254



Ethernet LAN

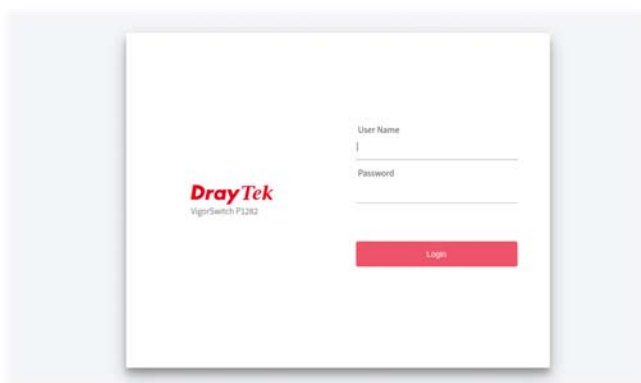
Before using the switch, perform the following steps:

1. Set up a physical path between the configured the switch and a PC by a qualified UTP Cat. 5e cable with RJ-45 connector.

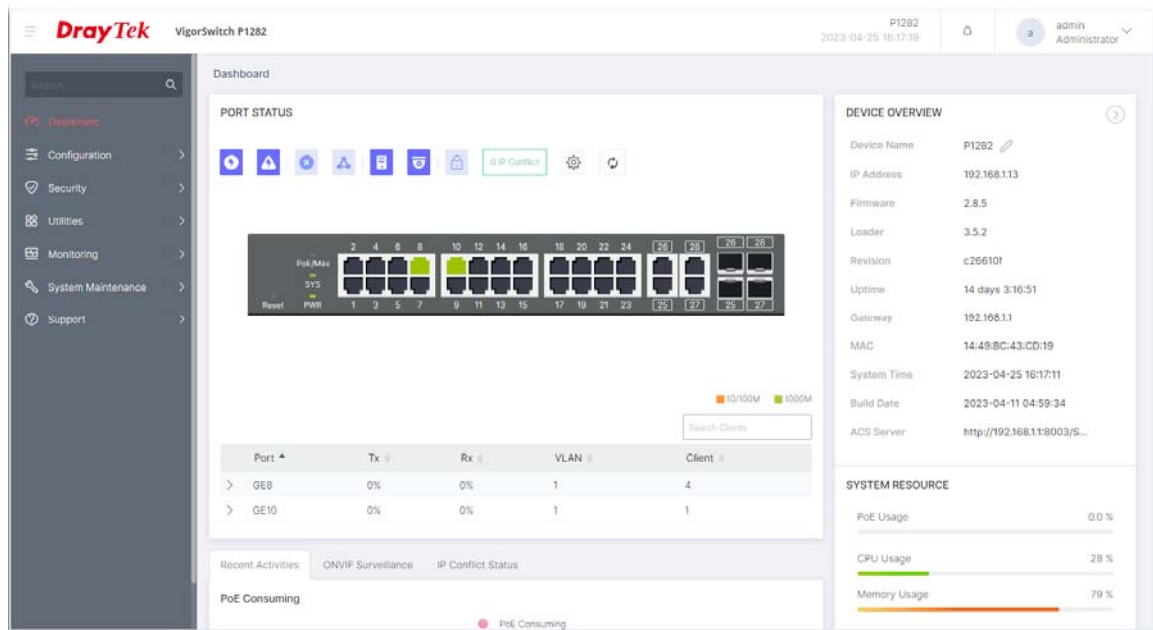
If a PC directly connects to the switch, you have to setup the same subnet mask for PC and the switch. Default values of the managed switch are listed as follows:

IP Address	192.168.1.224
Subnet Mask	255.255.255.0
DHCP Client	Enabled (On)
Username	admin
Password	admin

2. After configuring correct IP address on your PC, open your web browser and access switch's IP address.



The home page of VigorSwitch will be shown as below:



## Customer Service

If the switch cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to [support@draytek.com](mailto:support@draytek.com).

## Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <https://myvigor.draytek.com>.

## Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all switches will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents. <https://www.draytek.com>

### GPL Notice

This DrayTek product uses software partially or completely licensed under the terms of the GNU GENERAL PUBLIC LICENSE. The author of the software does not provide any warranty. A Limited Warranty is offered on DrayTek products. This Limited Warranty does not cover any software applications or programs.

To download source codes please visit:

<http://gplsource.draytek.com>

GNU GENERAL PUBLIC LICENSE:

<https://gnu.org/licenses/gpl-2.0>

Version 2, June 1991

For any question, please feel free to contact DrayTek technical support at [support@draytek.com](mailto:support@draytek.com) for further information.



#### EU Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorSwitch G1282 is in compliance with EU EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU.

The full text of the EU Declaration of Conformity is available at the following internet address:  
<https://fw.draytek.com.tw/VigorSwitch%20G1282/Document/CE/>

- Product name: 24+4 Gigabit Combo Switch
- Model number: VigorSwitch G1282
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan



#### Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorSwitch G1282 is in compliance with The Electromagnetic Compatibility Regulations 2016 (SI 2016 No.1091), The Electrical Equipment (Safety) Regulations 2016 (SI 2016 No.1101), and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032).

The full text of the UKCA Declaration of Conformity is available at the following internet address:  
<https://fw.draytek.com.tw/VigorSwitch%20G1282/Document/CE/>

- Product name: 24+4 Gigabit Combo Switch
- Model number: VigorSwitch G1282
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
- Importer: UK - CMS Distribution Limited, 15 Worship Street, London, EC2A 2DT  
Ireland - CMS Distribution Limited, Bohola Road, Kiltimagh, Co Mayo, Ireland



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- Model number: VigorSwitch P1282
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan



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- Product name: PoE 24+4 Gigabit Combo Switch
- Model number: VigorSwitch P1282
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
- Importer: UK - CMS Distribution Limited, 15 Worship Street, London, EC2A 2DT  
Ireland - CMS Distribution Limited, Bohola Road, Kiltimagh, Co Mayo, Ireland



#### EU Declaration of Conformity

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The full text of the EU Declaration of Conformity is available at the following internet address:

<https://fw.draytek.com.tw/VigorSwitch%20P1281x/Document/CE/>

- Product name: PoE 24xGbE + 4x10G SFP Switch
- Model number: VigorSwitch P1281x
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan



#### Declaration of Conformity

Hereby, DrayTek Corporation declares that the equipment type VigorSwitch P1281x is in compliance with The Electromagnetic Compatibility Regulations 2016 (SI 2016 No.1091), The Electrical Equipment (Safety) Regulations 2016 (SI 2016 No.1101), and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012 No. 3032).

The full text of the UKCA Declaration of Conformity is available at the following internet address:

<https://fw.draytek.com.tw/VigorSwitch%20P1281x/Document/CE/>

- Product name: PoE 24xGbE + 4x10G SFP Switch
- Model number: VigorSwitch P1281x
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan
- Importer: UK - CMS Distribution Limited, 15 Worship Street, London, EC2A 2DT  
Ireland - CMS Distribution Limited, Bohola Road, Kiltimagh, Co Mayo, Ireland