

# GEIST

Future Thinking • Solutions Today

## Upgradeable PDU



GEIST

POWER | Upgradeable

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Geist Upgradeable power strips give data centre managers the flexibility to install the intelligence they require today with the option to upgrade technology as needs evolve. From basic power to sophisticated power monitoring with remote sensors, the Geist Upgradeable product line adapts to your business well into the future.

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## Features & Benefits

**Upgradeable Monitoring** – Install the technology you need today with the ability to upgrade as your needs evolve.

**Hot-Swappable Units** – Add, remove or switch Interchangeable Monitoring Devices (IMD) without interrupting power to critical servers.

**High Temperature Grade** – 60°C working ambient variants for high temperature environments.

**Remote Sensor Port** – Monitor environmental conditions such as temperature, airflow, humidity and dew point with the use of a Geist remote sensors.

**Input Power Monitoring 1% Accuracy (ANSI and IEC standards)** – Allows data centre managers to accurately reconcile power usage.

**Fault-Tolerant Daisy Chaining** – Simplifies intelligent PDU connectivity and ensures data is reported even with a break in the chain.

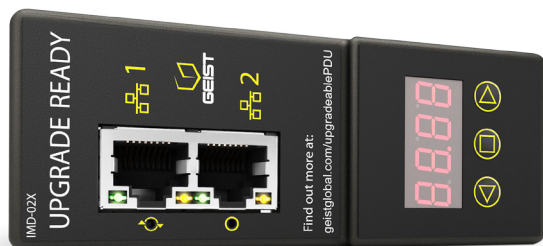
**Low-Profile Breakers** – Compact profile to install in tight spaces for units requiring breakers.

**Red LED Rotatable Display** – Read power data easily in dimly lit areas.

**Available With or Without U-Lock Receptacles** – Designed for simplicity, the patented U-Lock technology will naturally capture and securely lock cords in place. Each receptacle is colour injected directly, to assure load balancing is easily achieved.

## Upgrade Path

There is a clear route to upgraded functionality for Geist PDUs. However, it is not necessary to start at the most basic level. Simply choose the functionality that suits your requirements today and even if that is at our current most sophisticated level, our future solutions approach will allow you to upgrade at a later date.



## Future Upgrades

We are always looking to add functionality as technology advances, allowing you to make more of our product in the future. That means you can stay at the very peak of performance when it comes to our upgradeable power products.

### IMD – Power Monitoring and Remote Sensor

The latest Interchangeable Monitoring Device allows remote power monitoring and also adds the ability to connect up to four remote sensors - ideal for installations requiring environmental monitoring.

Pages 03 - 06

### IMD – Power Monitoring

A PDU that offers power monitoring: the perfect first step towards PDU increased functionality.

Pages 07 - 10

### Basic

Should your facility not be ready for any power monitoring, but it is on the future development plan, then you can start with the basic upgradeable unit. No IMD is included with the device, but the technology is included within the power strip.

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## Interchangeable Monitoring Device (IMD)

# Upgradeable Local and Remote Power Monitoring + Remote Sensing

Part Number: **IMD-02EV** - Vertical  
**IMD-02EH** - Horizontal

### Description

The IMD-02EV Interchangeable Monitoring Device + Remote Sensing delivers a comprehensive view of power usage and environmental conditions in a data centre. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02EV offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours. By monitoring these critical variables, data centre managers can evaluate energy usage trends and ensure maximum uptime. The unit's environmental sensor port also gives data centre managers the ability to track critical climate variables like temperature, airflow, humidity and dew point with the use of a Geist remote sensor.

Racknet Enabled — The IMD-02EV easily integrates

with Racknet — Geist's DCIM software. Racknet (purchased separately) collects and reports critical power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data centre through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact us for more details.

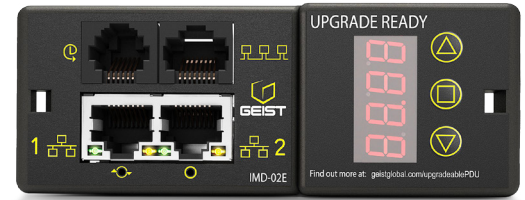
### Product Summary

Power Monitoring Plus Remote Sensing, Input and per Phase power monitoring with Circuit/Breaker current monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.





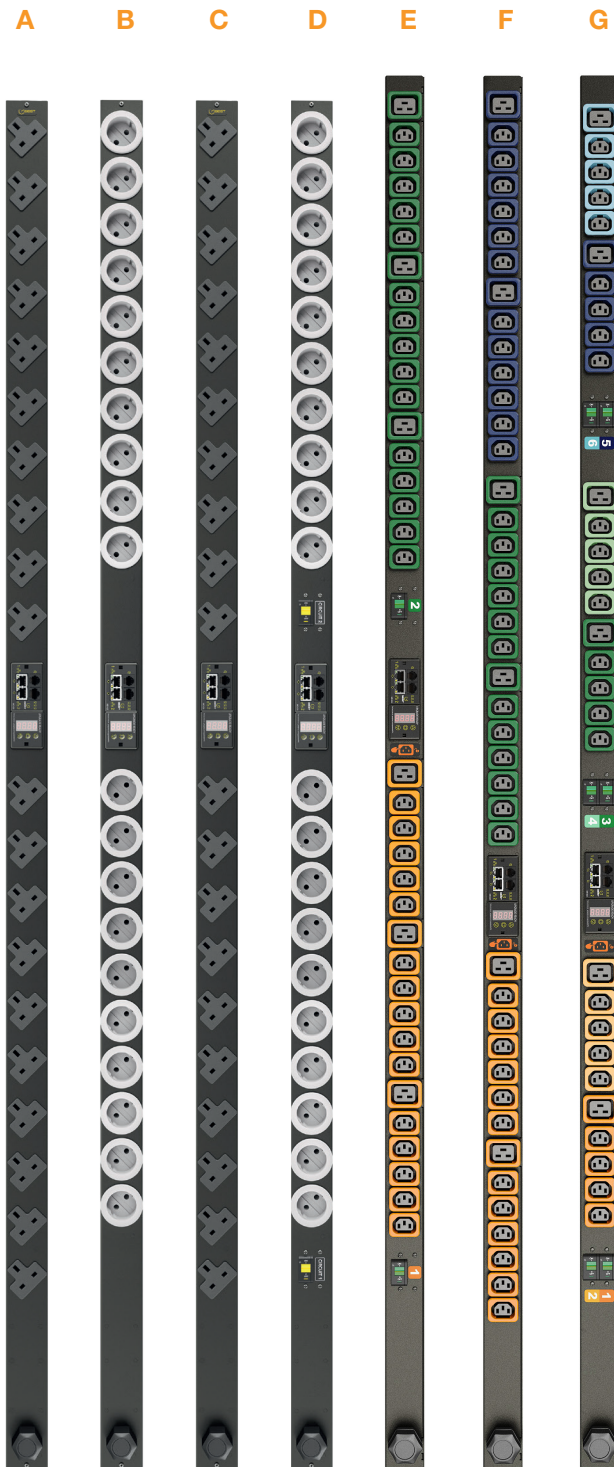
## Upgradeable Local and Remote Power Monitoring + Remote Sensing



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Remote Sensor Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
<b>A</b>	<b>GI29989</b>	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>B</b>	<b>GI29990</b>	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>C</b>	<b>GI29987</b>	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>D</b>	<b>GI29988</b>	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>E</b>	<b>GI20031L</b>	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>F</b>	<b>UI20014L</b>	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>G</b>	<b>GI20033L</b>	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

Additional configurations available. See them all at [geistglobal.com/upgradeablePDU](https://geistglobal.com/upgradeablePDU).





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## Interchangeable Monitoring Device (IMD)

# Upgradeable Local and Remote Power Monitoring

Part Number: **IMD-02XV** – Vertical  
**IMD-02XH** – Horizontal

### Description

The IMD-02XV Interchangeable Monitoring Device delivers a comprehensive view of power usage in a data centre. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02XV offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours. By monitoring these critical variables, data centre managers can evaluate energy usage trends and ensure maximum uptime.

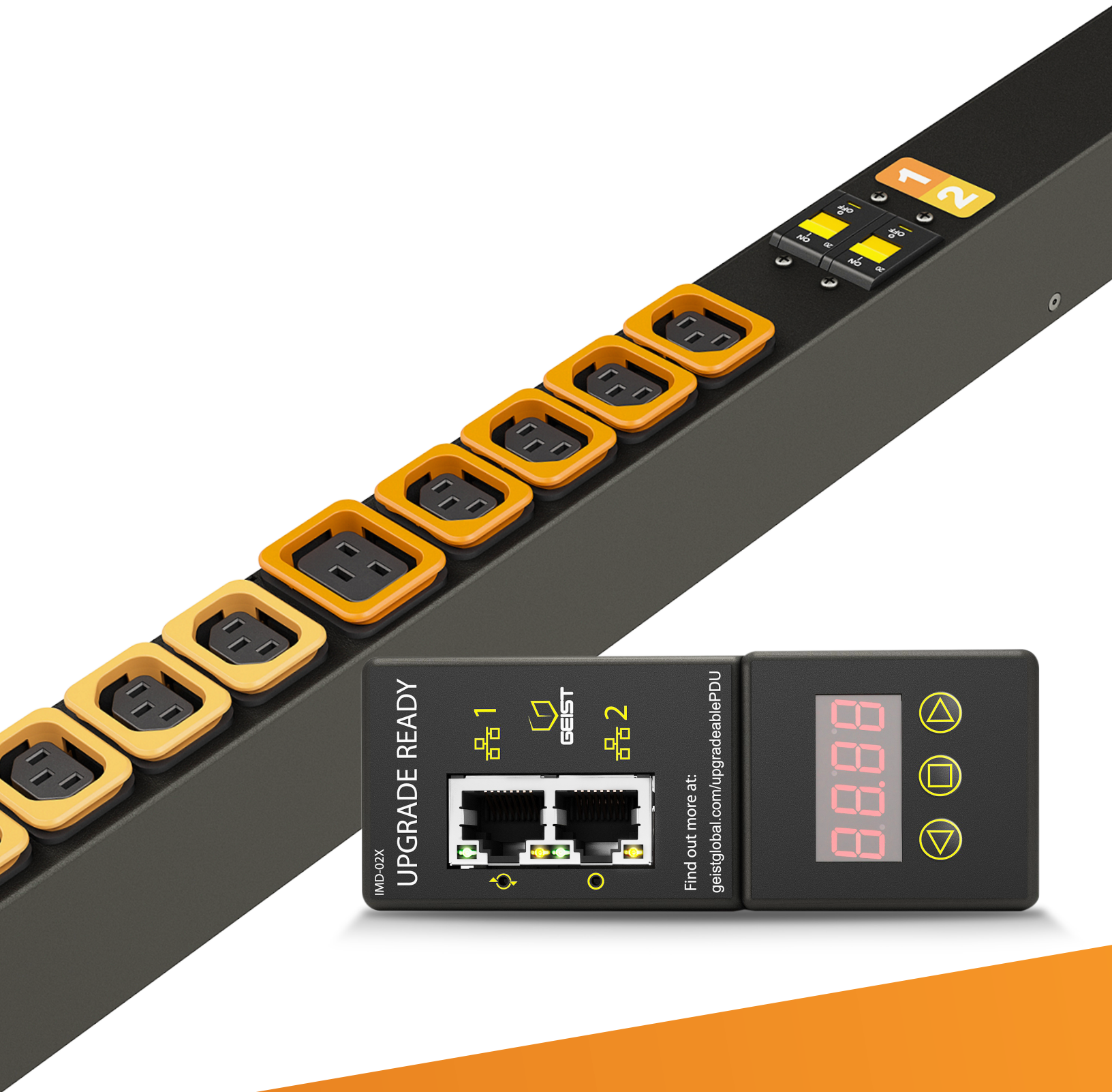
**Racknet Enabled** — The IMD-02XV easily integrates with Racknet — Geist's DCIM software. Racknet (purchased separately) collects and reports critical power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data centre through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact us for more details.

### Product Summary

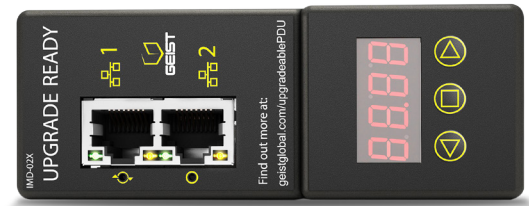
Power Unit Level Monitoring, Input and per Phase power monitoring with Circuit/Breaker current monitoring. Daisy chain Ethernet connectivity. Local high visibility LED display.







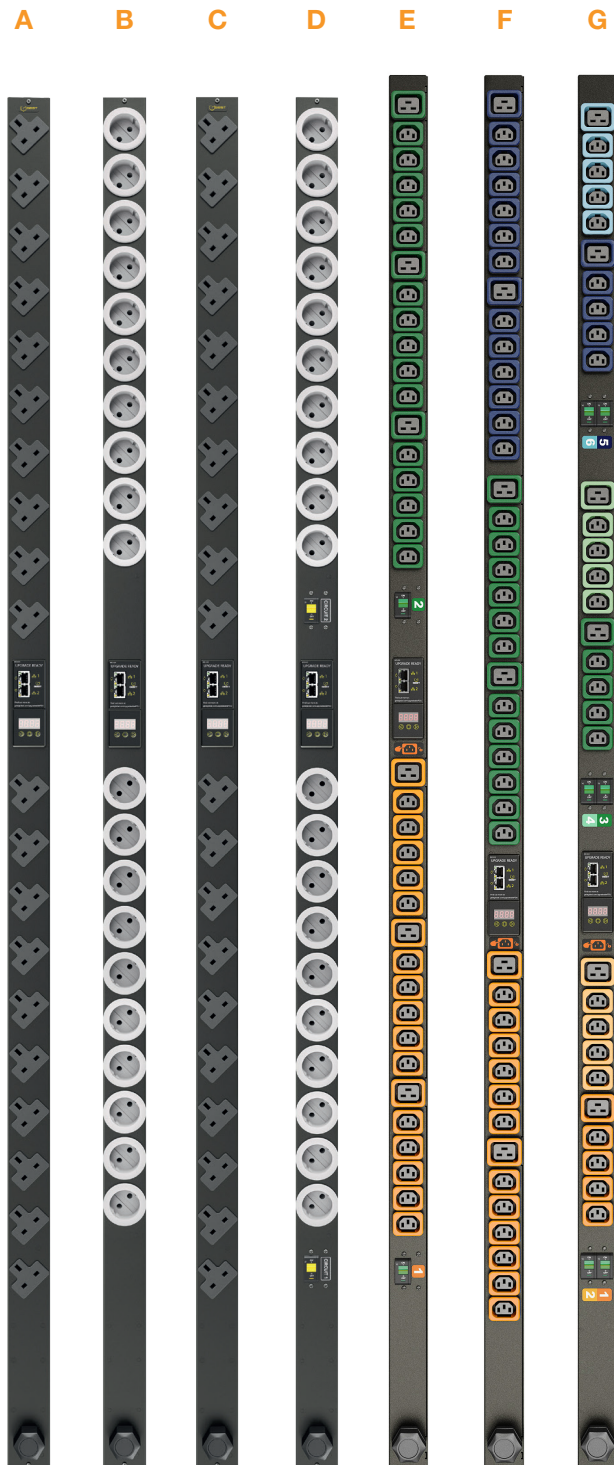
## Upgradeable Local and Remote Power Monitoring



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
<b>A</b>	<b>GI29998</b>	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>B</b>	<b>GI29999</b>	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>C</b>	<b>GI29996</b>	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>D</b>	<b>GI29997</b>	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>E</b>	<b>GI20003L</b>	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>F</b>	<b>UI20004L</b>	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>G</b>	<b>GI20005L</b>	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

Additional configurations available. See them all at [geistglobal.com/upgradeablePDU](https://geistglobal.com/upgradeablePDU).

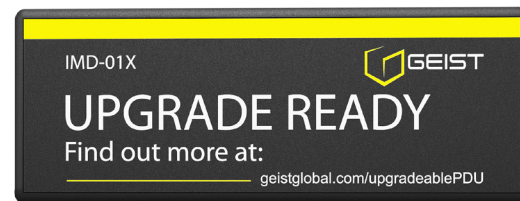




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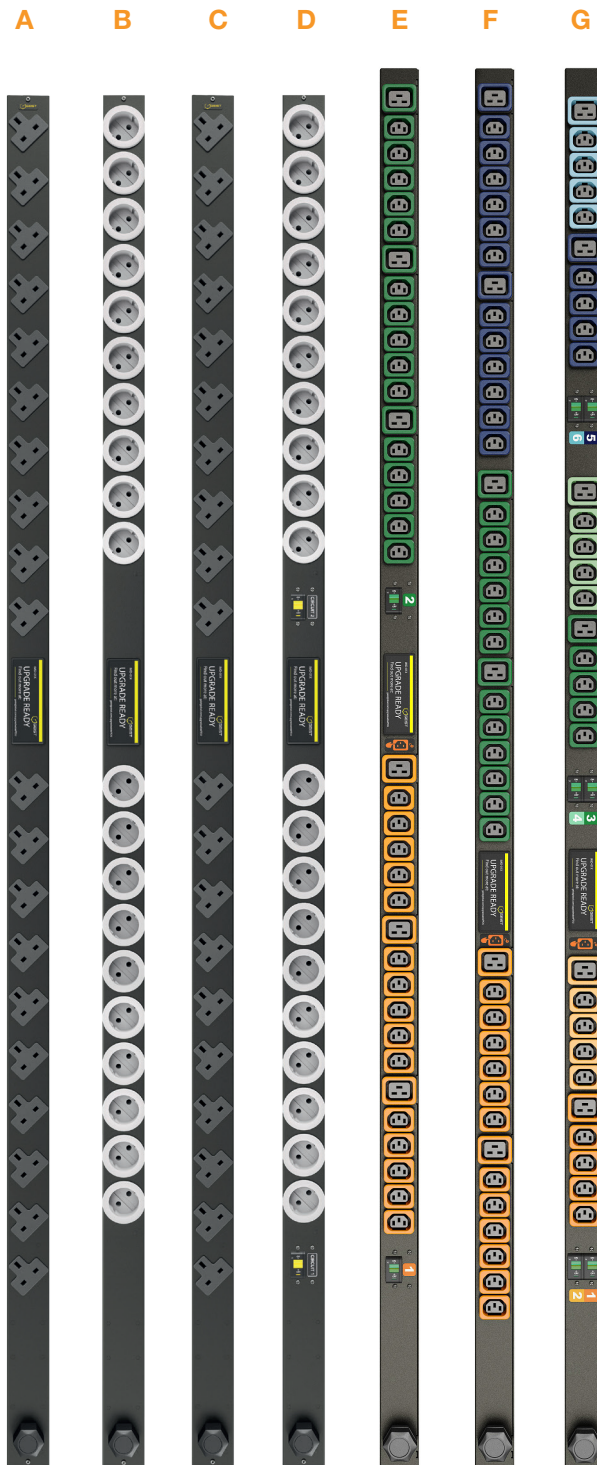
## Basic - Blanking Panels



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
<b>A</b>	<b>GI19988</b>	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>B</b>	<b>GI19989</b>	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	No	61.25in & 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>C</b>	<b>GI19986</b>	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>D</b>	<b>GI19987</b>	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
<b>E</b>	<b>GI10003L</b>	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>F</b>	<b>UI10004L</b>	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
<b>G</b>	<b>GI10005L</b>	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

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## Inline Upgradeable Local and Remote Power Monitoring

# Upgradeable Inline Monitoring

Basic PDUs not equipped with power monitoring can be retrofit with Geist's Upgradeable inline monitor. Simply insert the device between the PDU and the power source to measure and display data locally and remotely.

This is the ideal solution for facilities that do not want to replace their entire arsenal of non-intelligent PDUs, but want power monitoring capabilities. Local current monitoring supplies instant feedback, ideal for equipment moves, adds and changes. With

remote current monitoring, data centre managers can receive early notification of current threshold breach, preventing unnecessary downtime. Data from remote current monitoring can be accessed through any Web browser, and no external software is needed. Data can also be integrated into Simple Network Management Protocol (SNMP) systems for remote notification, and the user-friendly graphical user interface (GUI) allows managers to quickly find pertinent information.

KEY	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Remote Sensor Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing										
<b>A</b>	<b>UI20020</b>	16A or 20A	100-240V	1.9-4.0kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>B</b>	<b>GI20055</b>	16A	230V	3.6kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>B</b>	<b>GI20056</b>	16A	230/400V	11.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>C</b>	<b>GI20059</b>	32A	230V	7.3kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 89mm
<b>C</b>	<b>GI20060</b>	32A	230/400V	22.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm

Inline Upgradeable Local and Remote Power Monitoring										
<b>D</b>	<b>UI20019</b>	16A or 20A	100-240V	1.9-4.0kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>E</b>	<b>GI20049</b>	16A	230V	3.6kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>E</b>	<b>GI20050</b>	16A	230/400V	11.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
<b>F</b>	<b>GI20053</b>	32A	230V	7.3kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm
<b>F</b>	<b>GI20054</b>	32A	230/400V	22.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm



## Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing

A



B



C



## Inline Upgradeable Local and Remote Power Monitoring

D



E



F





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