



NEW

PDU DATA CENTER Power control and monitoring solutions



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PDU PULTI® I.P Monitoring

Remote monitoring (AMPS)

CONCEPT

- Monitoring of power consumption by equipment
- Integration into **SNMP** system for remote notification

APPLICATION

- Measurement of AMPS by socket individually, by group of sockets and by phase
- HTML based web pages + data via **SNMP** and XML
- Observe changes to circuit power consumption as equipment is added

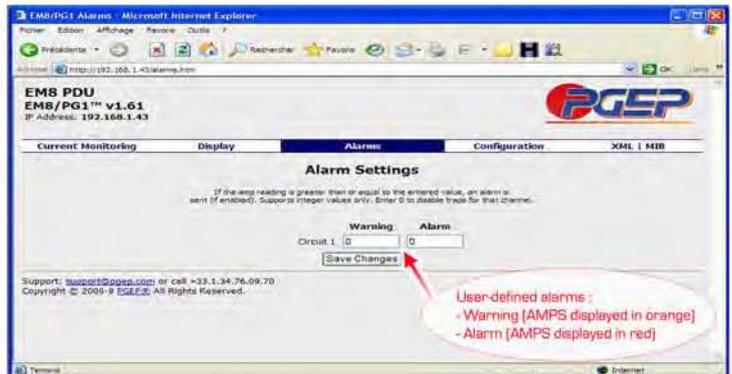
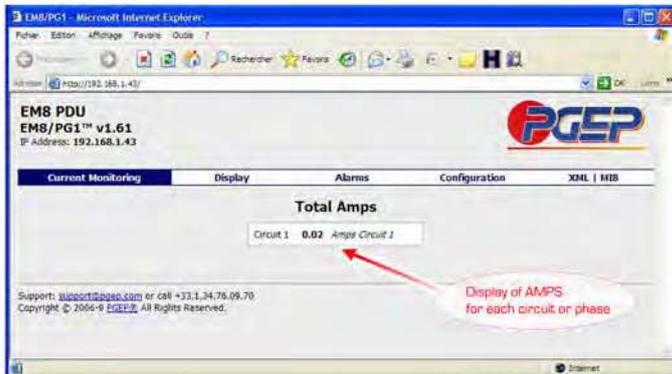
Local measurement of current loads (AMPS)

Locally (on the PDU) :



The display scrolls through the most recent current measurement (in AMPS) for each circuit, one at a time. It displays a circuit name, pauses and then displays the measurement. Momentarily press the red button to pause the display on the current measurement selected. The display will begin to scroll again 30 seconds after the last button push.

Web browser :



CONCEPT :

Extension module for measurement of AMPS from a "slave" PDU

APPLICATION :

Customization with an intelligent solution of existing installations

DESCRIPTIONS AND EXAMPLES OF PRODUCTS :

- Body of the PDU made of black anodized aluminium
- Dimensions (mm) :
l 300 x w 59,6 x h 56,5
- 1 black cable HO5VWF 3 G 1,5 mm²
1 m with an IEC 309 male plug
16 A - 250 V
- 1 module PULTI® I.P Monitoring
- 1 black cable HO5VWF 3 G 1,5 mm²
3 m with an IEC 309 female plug
16 A - 250 V



This configuration allows measurement of total (Tot) AMPS of the PDU connected to the module

Reference	Description	Dimensions (mm)
850001	PDU with : 1 module PULTI® I.P Monitoring	l 300 x w 59,6 x h 56,5

- 19" standard
- Body of the PDU made of black anodized aluminium
- Dimensions (mm) :
l 440 x w 59,6 x h 56,5
- 1 black cable HO5VWF 3 G 1,5 mm²
2 m with a mixed french/german moulded plug
16 A - 250 V
- 1 module PULTI® I.P Monitoring
- 4 Wieland connectors, 2 P+T,
GST 18 type
- Mounting brackets supplied (19")



This configuration allows measurement of total (Tot) AMPS of the PDU

Reference	Description	Dimensions (mm)
850002	PDU with : 1 module PULTI® I.P Monitoring + 4 Wieland connectors GST 18 type	l 440 x w 59,6 x h 56,5

PDU Single phase

CONCEPT :

PDU ready for feeding and monitoring of the connected equipment

APPLICATION :

PDU suitable for various configuration of single phases installation

- 19" standard
- Body of the PDU made of black anodized aluminium
- Dimensions (mm) :
| 440 x w 59,6 x h 56,5
- 1 black cable HO5VWF 3 G 1,5 mm²
3 m with a mixed french/german moulded plug 16 A - 250 V
- 1 module PULTI® I.P Monitoring
- 6 IEC320-C13 connectors, measured individually (AMPS) (Cr-1), (Cr-2), (Cr-3), (Cr-4), (Cr-5), (Cr-6), 2 P+T 10 A - 250 V
- Mounting brackets supplied (19")

This configuration allows measurement of sockets (Cr-1), ..., (Cr-6) AMPS of the PDU



Reference	Description	Dimensions (mm)
850003	PDU with : 1 module PULTI® I.P Monitoring + 6 IEC320-C13 connectors	440 x w 59,6 x h 56,5



- Body of the PDU made of black anodized aluminium
- Dimensions (mm) : | 1800 x w 59,6 x h 56,5
- 1 black cable HO7RNF 3 G 6 mm² - 2 m with an IEC 309 32 A - 250 V plug
- 1 module PULTI® I.P Monitoring
- 1 group with a double pole thermal and magnetic circuit-breaker 16 A, 2 IEC320-C19 connectors and 10 IEC320-C13 connectors individually measured (Cr-1)
- 1 group with a double pole thermal and magnetic circuit-breaker 16 A, 2 IEC320-C19 connectors and 10 IEC320-C13 connectors individually measured (Cr-2)

This configuration allows measurement by circuit (Cr-1), (Cr-2) and the total (Tot) AMPS of the PDU

Reference	Description	Dimensions (mm)
850004	PDU with : 1 module PULTI® I.P Monitoring and 2 groups with : 1 double pole thermal and magnetic circuit-breaker 16 A + 2 IEC320-C19 + 10 IEC320-C13 connectors	1800 x w 59,6 x h 56,5

PDU Three phases

CONCEPT :

PDU ready for feeding and monitoring of the connected equipment

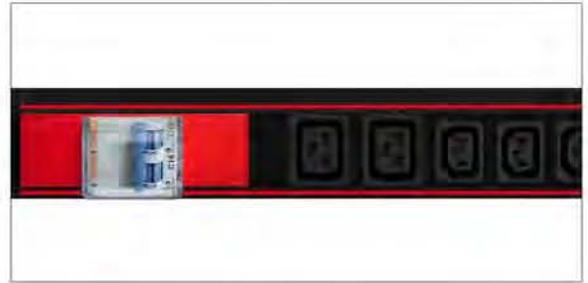
APPLICATION :

PDU suitable for various configuration of three phases installation



- Body of the PDU made of black anodized aluminium
- Dimensions (mm) : l 1800 x w 59,6 x h 56,5
- 1 black cable HO7RNF 5 G 6 mm² - 2 m with an IEC 309 3 P+N+E 32 A - 380 V
- 1 module PULTI[®] I.P Monitoring
- 3 phases each one made up of :
 - 2 double pole thermal and magnetic circuit-breakers 16 A
 - + 2 IEC320-C19 connectors
 - + 6 IEC320-C13 connectors

This configuration allows measurement of each phase (Ph-1), (Ph-2), (Ph-3) of the PDU



Reference	Description	Dimensions (mm)
850005	PDU with : 1 module PULTI [®] I.P Monitoring and 3 phases each one made up of : 2 double pole thermal and magnetic circuit-breakers 16 A + 2 IEC320-C19 + 6 IEC320-C13 connectors	l 1800 x w 59,6 x h 56,5

THE PRODUCTS OF THIS RANGE ARE ONLY EXAMPLES OF THE VARIOUS CONFIGURATION WE ARE ABLE TO OFFER.
DO NOT HESITATE TO CONTACT US, WE WILL DESIGN THE PDUs TO YOUR STANDARD.

RMS AMMETER

PDU PULTI® I.P Monitoring integrates an RMS Ammeter with the ability to display Amps locally and remotely over Ethernet. The meter consumes less than 5 Watts of power and has a range of 0 - 32 Amps with +/- 2 % accuracy.

LED DISPLAY

Each PDU has a built-in 4-digit LED display mounted midway down the chassis. The display scrolls through the most recent current measurement (in amps) for each circuit, one at a time.

It displays a circuit name, pauses and then displays the measurement. Momentarily press the "Pause Scroll/IP Address Reset" button on the front of the PDU to pause the display on the current measurement. While paused, the display will cycle back and forth between circuit name and current reading every three seconds. Momentarily pressing the "Pause Scroll/IP Address Reset" button again will skip ahead to the next circuit. The display will begin to scroll again thirty seconds after the last button push.

SNMP/XML

In addition to HTML based web pages, the PDU presents its data via **SNMP** and a XML page.

Simple Network Management Protocol (SNMP) is used in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

To use the PDU with **SNMP** Client software, download the MIB from the link on the unit's web page and import it into the **SNMP** software. Contact the client software manufacturer for instructions specific to their software.

The PDU's **SNMP** community comes preset to "public". To change this, go to the "Configuration" page, enter a new name in the **SNMP** Community box and hit "Save Changes". In addition **SNMP** traps can be used to monitor a user set threshold for each circuit, alarm settings and **SNMP** server settings are located on the "Configuration" page.

The XML page provides terse output that is easily parsed by both humans and computers and is useful for creating scripts to download and process information of the unit automatically.

The XML page is available at <http://IP address of meter/data.xml>

PDU PULTI® I.P Switcher

Remote control (ON/OFF) + Monitoring

CONCEPT

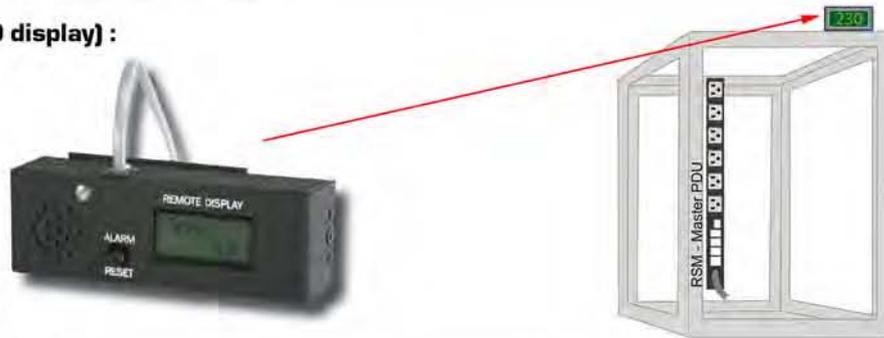
- Remote switching of individual outlets with the possibility of a sequential start-up
- Remote power monitoring of (AMPS, Watts, Volts...) for the equipment connected to the PDU
- Threshold alarms allows convenient notification and increase safety

APPLICATION

- Eliminate emergency service calls by rebooting unresponsive equipment via IP
- Secure data transmission with different user-level and passwords. User-friendly interface
- Real-time monitoring and alarming (**SNMP** Traps, e-mails, audible alarm...) of power variable and optional environmental condition

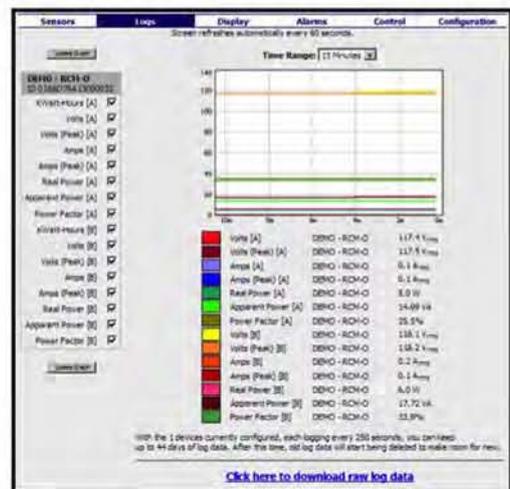
Current control and monitoring

Locally (remote LCD display) :



This local display can be mounted in a convenient location for ease of viewing. Placing it outside the rack eliminates the need to enter a secure enclosure. This self-powered LCD provides a scrolling display of user-selected critical data gathered by a connected PDU IPSO SWITCHER. In case of default, an audible tone will sound a high pitch alarm. The audible tone can be silenced by pressing the « reset » button.

Via Ethernet (web browser) :



PDU level power monitoring (Total PDU)

16 A SINGLE PHASE

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

DESCRIPTION :

- PDU for 19" standard 1U, 44 mm colour : black
- 1 input with a C20 male plug (for the connection of various types of extension cables)
- 8 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 8 green leds on the front face
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied (19")



Front face



Back face

Reference	Description	Dimensions (mm)
850006	PDU PULTI® I.P Switcher with : 1 C20 male input + 8 IEC 320-C13 connectors + 2 remote environmental sensor ports	1 440 x w 44 x d 216

Outlet power monitoring (Outlet 1, ..., Outlet 8)

16 A SINGLE PHASE

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

DESCRIPTION :

- PDU for 19" standard 1U, 44 mm colour : black
- 1 input with a C20 male plug (for the connection of various types of extension cables)
- 8 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 8 green leds on the front face
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied (19")



Front face



Back face

Reference	Description	Dimensions (mm)
850007	PDU PULTI® I.P Switcher with : 1 C20 male input + 8 IEC 320-C13 connectors + 2 remote environmental sensor ports	1 440 x w 44 x d 216

PDU PULTI® I.P Switcher : Switched and monitored PDU

PDU level power monitoring (Total PDU)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

DESCRIPTION :

- PDU for 19" standard 1U, 44 mm colour : black
- 1 black cable HO7RNF 3 G 4 mm² 3 m cut clean through + IEC 309 32 A plug
- 8 IEC 320-C13 black connectors 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 2 x 16 A double pole thermal and magnetic circuit-breakers
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied (19")

32 A SINGLE PHASE



Front face



Back face

Reference	Description	Dimensions (mm)
850008	PDU PULTI® I.P Switcher with : 8 IEC 320-C13 connectors + 2 x 16 A circuit-breakers + 2 remote environmental sensor ports	1 440 x w 44 x d 216



CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

DESCRIPTION :

- PDU for 19" standard 1U, 44 mm colour : black
- 1 black cable HO7RNF 3 G 4 mm² 3 m cut clean through + IEC 309 32 A plug
- 8 IEC 320-C13 black connectors 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 2 x 16 A double pole thermal and magnetic circuit-breakers
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied (19")

Outlet power monitoring (Outlet 1, ..., Outlet 8)

32 A SINGLE PHASE



Front face



Back face

Reference	Description	Dimensions (mm)
850009	PDU PULTI® I.P Switcher with : 8 IEC 320-C13 connectors + 2 x 16 A circuit-breakers + 2 remote environmental sensor ports	1 440 x w 44 x d 216



PDU PULTI® I.P Switcher : Switched and monitored PDU

PDU level power monitoring (Total PDU)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

16 A SINGLE PHASE

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HD7RNF 3 G 2.5 mm² - 3 m + IEC 309 plug, 2 P+E 16 A
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850010	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 1 remote LCD display + 2 remote environmental sensor ports	L 1683 x w 64 x d 58

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

Outlet power monitoring (Outlet 1, ..., Outlet 24)

16 A SINGLE PHASE

DESCRIPTION :

- Colour of the PDU : black



- 1 black cable HD7RNF 3 G 2.5 mm² - 3 m + IEC 309 plug, 2 P+E 16 A
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850011	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 1 remote LCD display + 2 remote environmental sensor ports	L 1683 x w 64 x P 58

PDU PULTI® I.P Switcher : Switched and monitored PDU

Outlet power monitoring (Outlet 1, ..., Outlet 24)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

32 A SINGLE PHASE

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 3 G 4 mm² - 3 m
+ IEC 309 plug, 2 P+E 32 A
- 20 IEC 320-C13 black connectors, 2 P+E
10 A 250 V individually switchable
(ON/OFF)
- 4 IEC 320-C19 black connectors, 2 P+E
16 A 250 V individually switchable
(ON/OFF)
- 2 x 16 A double pole thermal and magnetic circuit-breakers
- 1 remote LCD display
- 2 remote environmental sensor ports
(temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850012	PDU PULTI® I.P Switcher with : 20 IEC 320-C13 connectors + 4 IEC 320-C19 connectors + 2 x 16 A circuit-breakers + 1 remote LCD display + 2 remote environmental sensor ports	1778 x w 64 x d 58

PDU level power monitoring (Total PDU)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

32 A SINGLE PHASE

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 3 G 4 mm² - 3 m
+ IEC 309 plug, 2 P+E 32 A
- 20 IEC 320-C13 black connectors, 2 P+E
10 A 250 V individually switchable
(ON/OFF)
- 4 IEC 320-C19 black connectors, 2 P+E
16 A 250 V individually switchable
(ON/OFF)
- 2 x 16 A double pole thermal and magnetic circuit-breakers
- 1 remote LCD display
- 2 remote environmental sensor ports
(temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850013	PDU PULTI® I.P Switcher with : 20 IEC 320-C13 connectors + 4 IEC 320-C19 connectors + 2 x 16 A circuit-breakers + 1 remote LCD display + 2 remote environmental sensor ports	1683 x w 64 x d 58

PDU PULTI® I.P Switcher : Switched and monitored PDU

PDU level power monitoring (per phase)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

16 A THREE PHASES

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 5 G 2.5 mm² - 3 m + IEC 309 plug, 3 P+N+E 16 A 380 V
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850014	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 1 remote LCD display + 2 remote environmental sensor ports	1683 x w 64 x d 58

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

Outlet power monitoring (Outlet 1, ..., Outlet 24)

16 A THREE PHASES

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 5 G 2.5 mm² - 3 m + IEC 309 plug, 3 P+N+E 16 A 380 V
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850015	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 1 remote LCD display + 2 remote environmental sensor ports	1683 x w 64 x d 58

PDU PULTI® I.P Switcher : Switched and monitored PDU

PDU level power monitoring (per phase)

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

32 A THREE PHASES

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 5 G 4 mm² - 3 m + IEC 309 plug, 3 P+N+E 32 A 380 V
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 3 x 16 A double pole thermal and magnetic circuit-breakers
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850016	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 3 x 16 A circuit-breakers + 1 remote LCD display + 2 remote environmental sensor ports	l 1829 x w 64 x d 58

CONCEPT :

- Remote switching of individual outlets
- Power monitoring (AMPS, WATTS ...)

Outlet power monitoring (Outlet 1, ..., Outlet 24)

32 A THREE PHASES

DESCRIPTION :

- Color of the PDU : black



- 1 black cable HO7RNF 5 G 4 mm² - 3 m + IEC 309 plug, 3 P+N+E 32 A 380 V
- 21 IEC 320-C13 black connectors, 2 P+E 10 A 250 V individually switchable (ON/OFF)
- 3 IEC 320-C19 black connectors, 2 P+E 16 A 250 V individually switchable (ON/OFF)
- 3 x 16 A double pole thermal and magnetic circuit-breakers
- 1 remote LCD display
- 2 remote environmental sensor ports (temperature, humidity ...)
- Mounting brackets supplied



Reference	Description	Dimensions (mm)
850017	PDU PULTI® I.P Switcher with : 21 IEC 320-C13 connectors + 3 IEC 320-C19 connectors + 3 x 16 A circuit-breakers + 1 remote LCD display + 2 remote environmental sensor ports	l 1829 x w 64 x d 58

DESCRIPTION

The PDU PULTI® I.P Switcher are rack level PDUs with Outlet Control and Circuit Monitoring via a built-in web server in a self-contained unit. Web pages, including graphs, are generated by the unit to monitor power and environmental conditions within the cabinet.

NETWORKING

- Protocols : HTTP, HTTPS (SSL/TLS), SMTP, POP3, ICMP, DHCP, TCP/IP, NTP, Telnet, Syslog
- Data Formats : HTML, SNMP, CSV/Plain Text, XML

OVERVIEW

Each outlet of the PDU PULTI® I.P Switcher range can be switched individually with the possibility of a sequential start-up. Moreover, the current monitoring allows numerous information and the easy reading (graphs) on the « control » page. Depending on the configuration chosen, you can monitor the total consumption of the PDU or get the information at the outlet level.

INTERNAL SENSORS

- *Volts* : measures instantaneous RMS voltage
- *Volts (Peak)* : reports the highest reported voltage since the last time the data was updated, typically every 5 seconds
- *Amps* : measures instantaneous RMS current
- *Amps (Peak)* : reports the highest reported current since the last time the data on the screen was updated, typically every 5 seconds
- *Real Power* : average of instantaneous voltage and current over the last 1.5 seconds
- *Apparent Power* : the product of instantaneous RMS Voltage and RMS Current. This is the value used by circuit breakers
- *Power Factor* : the ratio of Real Power to Apparent Power
- *Amps Group* : reports the group SUM of individual receptacle readings

Optional RJ Remote Sensors :

- RT Temperature
- RTAF Temperature / Airflow
- RTAFH Temperature / Airflow / Humidity
- RTHD Temperature / Humidity / Dew Point
- CCAT Converts I/O Sensor to Remote Sensor

Optional I/O Sensors :

- (Note: PDU PULTI® I.P Switcher devices require a CCAT to interface with I/O Sensors)
- RWS Water
- RDPS Door
- SA-1 Smoke Alarm

Graphing and Displaying Data

All data collected by the unit can be graphed. The Log page allows the user to select graphed content and sampling rate.

Setting Alarms

For all data collected by the unit, the user can set high and low limits. When these limits are exceeded the user has the option of sending an e-mail, **SNMP** trap, activate the audible alarm (on units where it is present), or any combination of the three. The **SNMP** traps can be sent to 4 IP addresses.

Accounts, Passwords and Security

The unit is accessible via a standard, unencrypted HTTP connection as well as an encrypted HTTPS (SSL) connection. The user may opt to enable access via HTTP, HTTPS, or both HTTP and HTTPS. It is not possible to disable the web interface completely. The unit has a View-Only account, a Control Access account, and an Administrator account.

The unit is accessible via a standard, unencrypted HTTP connection as well as an encrypted HTTPS (SSL) connection.

E-Mail

The unit is capable of sending e-mail to a maximum of 5 e-mail addresses when alarm conditions are met. E-mail settings are on the "Configuration" page.

Daily Affirmation

Daily Affirmation allows the users to choose a frequency with which the unit will forward a full status report to their e-mail. This status report can come hourly, every 2, 4, 8, or 12 hours, or once daily (24 hours).

Module PULTI® I.P Environmental Monitoring

Remote environmental monitoring (temperature, humidity ...)

CONCEPT

- Comprehensive environmental monitoring of the equipment within the data center and detailed information provide an opportunity for energy savings in addition to the maximization of uptime
- Within minutes of connecting the Environmental Monitor + Display you will have temperature, humidity, airflow sound level and light level readings at your finger tips
- Threshold alarms allows convenient notification and increase safety

APPLICATION

- Possibility to connect numerous elements (sensors) on different configuration always linked to the user defined utilization
- Secure data transmission with different user-level and passwords. User-friendly interface
- Real-time monitoring and alarming (**SNMP** Traps, e-mails, audible alarm...)

Environmental Monitoring

Local display (depending on the configuration chosen) :



The LCD display of this version provides a trend data for environmental conditions including temperature, relative humidity, air flow, light and sound.

Via Ethernet (Web browser) :



CONCEPT :

- Environmental monitoring to the rack and data center level
- Threshold alarms and convenient notification

FIXATION 19"

DESCRIPTION :

- Module for 19" standard 1U, 44 mm colour : black
- 5 on-board environmental sensors : temperature, humidity, air flow, light and sound
- 5 remote climate sensor ports
- 3 i/o sensor ports
- LCD digital display
- Audible alarm ("buzzer")
- Power supply included
- Mounting brackets supplied ("19")



Reference	Description	Dimensions (mm)
850018	PULTI® I.P Environmental Monitoring with : LCD digital display + Alarm + 5 on-board remote sensors + 5 remote climate sensor ports + 3 i/o sensor ports	1440 x w 44 x d 41

CONCEPT :

- Environmental monitoring to the rack and data center level
- Threshold alarms and convenient notification

FIXATION 19"

DESCRIPTION :

- Module for 19" standard 1U, 44 mm colour : black
- Internal climate sensors : temperature - 55 C to 79 C (+/- 5 C)
- External sensor ports : 16 RJ 12 jacks
- 3 i/o sensor ports
- Power supply included
- Mounting brackets supplied ("19")



Reference	Description	Dimensions (mm)
850019	PULTI® I.P Environmental Monitoring with : Internal climate sensor (temperature) + 16 RJ 12 jacks for external sensor ports + 3 i/o sensor ports	1440 x w 44 x d 41

PULTI® I.P Environmental Monitoring

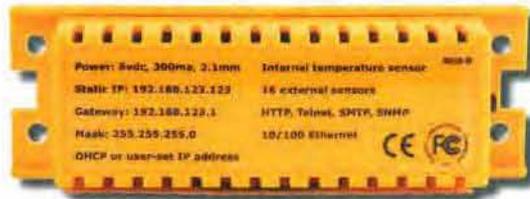
COMPACT

CONCEPT :

- Environmental monitoring to the rack and data center level
- Threshold alarms and convenient notification

DESCRIPTION :

- Internal climate sensor : temperature - 10 C to 50 C (+/- 5 C)
- 1 RJ 12 jack for external sensor ports
- Connect up to 16 remote sensors via splitters
- Power supply included



Reference	Description	Dimensions (mm)
072206	PULTI® I.P Environmental Monitoring with : Internal climate sensor (temperature) + 1 RJ 12 jack for external sensor ports + connection up to 16 remote sensors via splitters	l 134 x h 39 x d 39

PULTI® I.P Environmental Monitoring : Accessories

DESCRIPTION :

Door position sensor magnetic switch

- Monitor cabinet door position (open vs. closed) with this magnetic sensor
- Set alarms to alert when a secure cabinet has been opened
- Standard lengths of 9 m and 30 m



Reference	Description	Dimensions
140037	Door position sensor magnetic switch	9 m
140038	Door position sensor magnetic switch	30 m

DESCRIPTION :

Water sensor

- Acts as a conductivity bridge to detect the presence of moisture or water
- Standard 6 m cord length

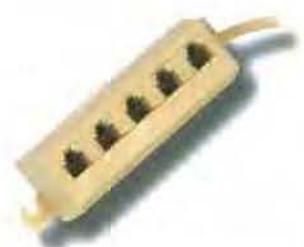


Reference	Description	Dimensions
220121	Water sensor	6 m

DESCRIPTION :

RJ 12 5-way splitter

- Expand the number of sensors connected
- Ideal for the compact environmental unit



Reference	Description	Dimensions
072205	RJ 12 5-way splitter	-

DESCRIPTION :

Temperature sensor

- Temperature -55 C to 79 C (+/- 5 C)
(software limits range to - 55 C to 50 C for enhanced graph readability)



Reference	Description	Dimensions
105022	Temperature sensor	3,5 m
105023	Temperature sensor	15 m
105024	Temperature sensor	30,5 m

DESCRIPTION :

Temperature and air flow sensor

- Temperature - 55 C to 79 C (+/- 5 C)
(software limits range to - 55 C to 50 C for enhanced graph readability)
- Air flow 0 - 99 relative



Reference	Description	Dimensions
105019	Temperature and air flow sensor	3,5 m
105020	Temperature and air flow sensor	15 m
105021	Temperature and air flow sensor	30,5 m

DESCRIPTION :

Temperature, air flow, and humidity sensor

- Temperature - 55 C to 79 C (+/- 5 C)
(software limits range to - 55 C to 50 C for enhanced graph readability)
- Air flow 0 - 99 relative
- Humidity RH accuracy +/- 2 % RH, range 0 to 100 % RH, non-condensing
- Ideal for placement near air intake (coldest/driest conditions) and air exhaust (warmest/moistest conditions)



Reference	Description	Dimensions
105016	Temperature, air flow and humidity sensor	3,5 m
105017	Temperature, air flow and humidity sensor	15 m
105018	Temperature, air flow and humidity sensor	30,5 m

DESCRIPTION :**Temperature, humidity and dew point sensor**

- Temperature - 55 C to 79 C (+/- 5 C)
(software limits range to - 55 C to 50 C
for enhanced graph readability)
- Humidity RH accuracy +/- 2 % RH,
range 0 to 100 % RH, non-condensing
- Dew point : calculated using data
provided by the humidity sensor.
Dew point sensor is ideal for wiring
closets, satellite or outside plant
stations where low temperature
objects are exposed to rapid
temperature change.



Reference	Description	Dimensions
105025	Temperature, humidity and dew point sensor	3,5 m
105026	Temperature, humidity and dew point sensor	15 m
105027	Temperature, humidity and dew point sensor	30,5 m

DESCRIPTION :**Temperature, humidity and dew point sensor**

- Temperature - 55 C to 79 C (+/- 5 C)
(software limits range to - 55 C to 50 C
for enhanced graph readability)
- Humidity RH accuracy +/- 2 % RH,
range 0 to 100 % RH, non-condensing
- Dew point : calculated using data
provided by the humidity sensor.
Dew point sensor is ideal for wiring
closets, satellite or outside plant
stations where low temperature
objects are exposed to rapid
temperature change.



Reference	Description	Dimensions
105025	Temperature, humidity and dew point sensor	3,5 m
105026	Temperature, humidity and dew point sensor	15 m
105027	Temperature, humidity and dew point sensor	30,5 m

OPTION :**Web cameras**

- Acquire video stream via IP
enabled web cameras : *consult us*



DESCRIPTION

The PULTI[®] I.P Environmental Monitoring Units provide remote environmental monitoring and alarming capability needed to detect climate conditions in data centers.

These units are equipped with a built-in web server. Web pages, including graphs, are generated by the unit to monitor environmental conditions within the cabinet.

NETWORKING

Protocols : HTTP, HTTPS (SSL/TLS), SMTP, POP3, ICMP, DHCP, TCP/IP, NTP, Telnet, Syslog

Data Formats : HTML, SNMP, CSV/Plain Text, XML

OVERVIEW

The unit is accessible via a standard, unencrypted HTTP connection as well as an encrypted HTTPS (SSL) connection.

There are three levels of account security :

- Administrator : password protects the Display, Alarms and Configuration pages
- Control Access : password protects the Control Actions and Control Settings pages
- View-Only : password protects the Sensors, PDA, WAP and XML pages

SENSORS PAGE

The front page, Sensors, gives both instantaneous and historical views of the unit's data.

Real time readings are provided for all sensor data next to historical graphs.

Optional cameras may be added and their live snapshots are shown on this page.

Plug-and-play sensors appear below the internal sensors when attached.

LOGGING PAGE

The Logging page allows the user to access the historical data by selecting the desired sensors and time range to be graphed. Selected sensor values are logged into the data file at a rate of one point per minute.

Please note that although data is logged once per minute, all sensor data used in the real time display and alarm functions is read at least once every 5 seconds for internal sensors and once every 30 seconds for external sensors.

On some units only, checked readings are displayed on the LCD module.

DISPLAY PAGE

The Display page allows the user to assign friendly names to internal and attached sensors as well as change the default temperature unit of measure for sensors.

The display page also allows the user to select between the default and classic web page layouts.

The default interface displays a vertical menu bar to the left of the main window, while the classic interface displays a horizontal menu bar across the top of the screen.

ALARM PAGE

The Alarms page allows the user to establish alarm conditions for each sensor reading.

Alarm conditions can be established with either high or low trip thresholds.

The alarms are displayed in different sections based on the device the alarm is associated with.

Alarm options include a local Buzzer (some units only), E-mail and **SNMP** Trap.

CONFIGURATION PAGE

The Configuration page has five sub-tabs : Network, Monitoring, Diagnostics, Event Log, and Admin.

SNMP

The unit supports retrieval of all data via Simple Network Management Protocol (**SNMP**) v1 and v2c. In addition, alarm traps can be sent to up to two IP addresses.

The **SNMP** configuration is entered on the Monitoring tab of the Configuration page.

PULTI® Power Distribution Unit

Reliable power distribution units

CONCEPT

Secure electrical supply to all server and network equipment in any standard 19" rack

APPLICATION

- Modular product with wide choice of mains connector types, which can be mixed
- Integrated protection (circuit breakers, RFI noise and/or surge suppression etc.) can be specified according to the intended use of the PDU
- Products manufactured to precise demand – incorporating any required functions such as protection, information (monitoring) and control



PULTI® Power Distribution Unit

Basic Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
w = 44 mm [1 U], l = 440 mm [19"]
- 1 black end cap with cable-clamp + 1 black smooth end cap
- Black cable HO5VVF 3 G 1,5 mm²
2 m with a mixed french/german moulded plug 16 A - 250 V

GROUP 1 :

- 8 IEC 320-C13 black connectors, 2 P+E, 10 A 250 V

GROUP 2 :

- 2 IEC 320-C19 black connectors, 2 P+E, 16 A 250 V
- Mounting brackets supplied [19"]

16 A PDU



Reference	Description	Dimensions [mm]
620918	PULTI® Power Distribution with : Group 1 : 8 IEC 320-C13 connectors Group 2 : 2 IEC 320-C19 connectors	l 440 x w 44 x h 44

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
w = 44 mm [1 U], l = 440 mm [19"]
- 1 black end cap with cable-lamp + 1 black smooth end cap
- Black cable HO5VVF 3 G 1,5 mm²
2 m with a mixed french/german moulded plug 16 A - 250 V

- 9 IEC 320-C19 black connectors, 2 P+E, 16 A 250 V

- Mounting brackets supplied [19"]

16 A PDU



Reference	Description	Dimensions [mm]
620919	PULTI® Power Distribution with : 9 IEC 320-C19 connectors	l 440 x w 44 x h 44

Basic Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

16 A PDU

DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
- w = 44 mm [1 U], l = 440 mm [19"]
- Power distribution : 20 A
- 1 black end cap with cable-clamp + 1 black smooth end cap
- Supply :
- 1 black cable 3 G 2,5 mm²
- 3 m with IEC 320-C20 plug
- Connectors : 12 IEC 320-C13, 2 P+E, 10 A 250 V
- Mounting brackets supplied [19"]



Reference	Description	Dimensions [mm]
620921	PULTI® Power Distribution with : 12 IEC 320-C13 connectors	l 440 x w 44 x h 44

Protection Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

20 A Protected power supply box

DESCRIPTION :

- Box ; Pulti® V2 back-to-back made of black anodized aluminium
- w = 44 mm [1U], l = 440 mm [19"], depth = 88 mm
- Power distribution : 20 A
- SIDE 1 :**
- Input : black cable 3 G 2,5 mm² - 3 m with 16 A - 250 V Winsta series Wago male connector
- Connectors : 9 IEC 320-C13, 2 P+E 10 A 250 V
- Each connector is individually protected by a fuse with a voltage indicator on side 2

SIDE 2 :

- Protections : 9 fuses of 5 x 20 - 2 A
- 9 amber voltage indicators (the indicator goes off when the fuse is faulty and there is no voltage)
- Mounting brackets supplied [19"]



Reference	Description	Dimensions [mm]
620922	PULTI® Power Distribution with : Side 1 : 9 IEC 320-C13 connectors Side 2 : 9 fuses of 5 x 20 - 2 A + 9 voltage indicators	l 440 x w 44 x d 88

Basic Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

PDU three phases 16 A

DESCRIPTION :

- Pulti® V1 made of black anodized aluminium
w = 44 mm [1 U], l = 704 mm
- 1 black end cap with rubber-grommet
+ 1 black smooth end cap
- Black cable HO7RNF 5 G 1,5 mm² - 2 m with an IP44 plug, 3 P+N+E, 16 A 380 V

PHASE 1 :

- 4 IEC 320-C13 grey connectors, 2 P+E, 10 A 250 V

PHASE 2 :

- 4 IEC 320-C13 black connectors, 2 P+E, 10 A 250 V

PHASE 3 :

- 4 IEC 320-C13 red connectors, 2 P+E, 10 A 250 V



Reference	Description	Dimensions (mm)
606472	PULTI® Power Distribution with : Phase 1 : 4 IEC 320-C13 grey connectors Phase 2 : 4 IEC 320-C13 black connectors Phase 3 : 4 IEC 320-C13 red connectors	l 704 x w 44 x h 44

Redundant Power Supplies : multi-circuits

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

PDU 2 x 16 A

DESCRIPTION :

- 12 connectors and 2 separate power circuits
- Pulti® V1 made of black anodized aluminium
w = 44 mm [1 U], l = 660 mm
- 1 black end cap with rubber-grommet
+ 1 black smooth end cap

CIRCUIT 1 :

- Grey cable HO5VVF 3 G 1,5 mm² - 2 m with a grey mixed french/german moulded plug 16 A - 250 V
- 6 IEC 320-C13 grey connectors, 2 P+E, 10 A 250 V

CIRCUIT 2 :

- Black cable HO5VVF 3 G 1,5 mm² - 2 m with a black mixed french/german moulded plug 16 A - 250 V
- 6 IEC 320-C13 black connectors, 2 P+E, 10 A 250 V



Reference	Description	Dimensions (mm)
606473	PULTI® Power Distribution with : Circuit 1 : 6 IEC 320-C13 grey connectors Circuit 2 : 6 IEC 320-C13 black connectors	l 660 x w 44 x h 44

■ Redundant ■ Power Supplies : *multi-circuits*

4 x 10 A PDU

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"



DESCRIPTION :

- 32 connectors and 4 separate power circuits
- Pulti® V1 made of black anodized aluminium
w = 44 mm [1 U], l = 1784 mm
- 2 black end caps with rubber-grommet

CIRCUIT 1 :

- Black cable H05VWF 3 G 1,5 mm² with a grey mark, 1 m with an IEC male plug, 10/16 A 250 V
- 8 IEC 320-C13 grey connectors, 2 P+E, 10 A 250 V

CIRCUIT 2 :

- Black cable H05VWF 3 G 1,5 mm² with a black mark, 1 m with an IEC male plug, 10/16 A 250 V
- 8 IEC 320-C13 black connectors, 2 P+E, 10 A 250 V

CIRCUIT 3 :

- Black cable H05VWF 3 G 1,5 mm² with a blue mark, 1 m with an IEC male plug, 10/16 A 250 V
- 8 IEC 320-C13 blue connectors, 2 P+E, 10 A 250 V

CIRCUIT 4 :

- Black cable H05VWF 3 G 1,5 mm² with a red mark, 1 m with an IEC male plug, 10/16 A 250 V
- 8 IEC 320-C13 red connectors, 2 P+E, 10 A 250 V

Reference	Description	Dimensions (mm)
606474	PULTI® Power Distribution with : Circuit 1 : 8 IEC 320-C13 grey connectors Circuit 2 : 8 IEC 320-C13 black connectors Circuit 3 : 8 IEC 320-C13 blue connectors Circuit 4 : 8 IEC 320-C13 red connectors	l 1784 x w 44 x h 44

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

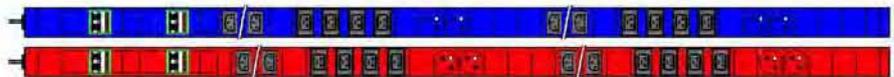
32 A PDU



DESCRIPTION :

- 28 connectors and 2 interdependent supply circuits
- Pulti® V1 made of black anodized aluminium
w = 44 mm [1 U], l = 2024 mm
- 1 blue/red end cap with rubber-grommet + 1 blue/red smooth end cap
- Black cable HO7RNF 3 G 6 mm² - 1,50 m cut clean through

Staggered sockets :



CIRCUIT 1 :

- 14 sockets in 3 groups :
- 1 double pole thermal and magnetic circuit-breaker 16 A, 180° reverse current
- Group 1 : 8 IEC 320-C13 connectors, 2 P+E, 10 A 250 V
- Group 2 : 4 IEC 320-C19 connectors, 2 P+E, 16 A 250 V
- Group 3 : 2 french socket-outlets, 2 P+E, 16 A 250 V with socket-contact covers

CIRCUIT 2 :

- 14 sockets in 3 groups :
- 1 double pole thermal and magnetic circuit-breaker 16 A, 180° reverse current
- Group 1 : 8 IEC 320-C13 connectors, 2 P+E, 10 A 250 V
- Group 2 : 4 IEC 320-C19 connectors, 2 P+E, 16 A 250 V
- Group 3 : 2 french socket-outlets, 2 P+E, 16 A 250 V with socket-contact covers

Reference	Description	Dimensions [mm]
Blue : 606475	PULTI® Power Distribution with : Circuit 1 : 1 double pole thermal and magnetic circuit-breaker	l 2024 x w 44 x h 44
Red : 606476	+ group 1 : 8 IEC 320-C13 connectors + group 2 : 4 IEC 320-C19 connectors + group 3 : 2 french socket-outlets Circuit 2 : 1 double pole thermal and magnetic circuit-breaker	
	+ group 1 : 8 IEC 320-C13 connectors + group 2 : 4 IEC 320-C19 connectors + group 3 : 2 french socket-outlets	

Protection Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

32 A PDU

DESCRIPTION :

- 8 connectors and 2 interdependent supply circuits
- Pulti® V2 made of black anodized aluminium
w = 44 mm (1 U), l = 440 mm (19")
- 1 black end cap with rubber-grommet + 1 black smooth end cap
- Black cable HO7RNF 3 G 6 mm² - 4 m cut clean through

CIRCUIT 1 :

- 1 single pole thermal circuit-breaker 16 A 250 V + 250 V voltage indicator
- 4 IEC 320-C13 connectors, 2 P+E, 10 A 250 V

CIRCUIT 2 :

- 1 single pole thermal circuit-breaker 16 A 250 V + 250 V voltage indicator
- 4 IEC 320-C13 connectors, 2 P+E, 10 A 250 V
- Mounting brackets supplied (19")



Reference	Description	Dimensions (mm)
620923	PULTI® Power Distribution with : Circuit 1 : 1 single pole thermal circuit-breaker + 4 IEC 320-C13 connectors Circuit 2 : 1 single pole thermal circuit-breaker + 4 IEC 320-C13 connectors	l 440 x w 44 x h 44

Monitoring Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

10 A PDU

DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
w = 44 mm (1 U), l = 440 mm (19")
- 1 black end cap with cable-clamp + 1 black smooth end cap
- Black cable HO5VVF 3 G 1,5 mm² - 2 m with an IEC 320-C14 moulded plug, 10 A 250 V
- 1 digital ammeter from 0 to 32 A 250 V, left horizontal display
- 7 IEC 320-C13 connectors, 2 P+E, 10 A 250 V
- Mounting brackets supplied (19")



Reference	Description	Dimensions (mm)
620924	PULTI® Power Distribution with : 1 digital ammeter + 7 IEC 320-C13 connectors	l 440 x w 44 x h 44

Monitoring Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

16 A PDU

DESCRIPTION :

- 9 connectors and 3 interdependent supply circuits
- Pulti® V1 made of black anodized aluminium
w = 44 mm (1 U), l = 572 mm
- 1 black end cap with cable-clamp + 1 black smooth end cap
- Black cable HD5VVF 3 G 2,5 mm² - 3 m with a mixed french/german moulded plug 16 A - 250 V
- 1 digital ammeter, from 0 to 32 A - 250 V, top vertical display



CIRCUIT 1 :

- 3 black french socket-outlets 2 P+E, 16 A 250 V with socket-contact covers

CIRCUIT 2 :

- 3 IEC 320-C13 black connectors, 2 P+E, 10 A 250 V

CIRCUIT 3 :

- 3 IEC 320-C19 black connectors, 2 P+E, 16 A 250 V

Reference	Description	Dimensions [mm]
606479	PULTI® Power Distribution with : Circuit 1 : 3 french socket-outlets Circuit 2 : 3 IEC 320-C13 connectors Circuit 3 : 3 IEC 320-C19 connectors	l 572 x w 44 x h 44

Protection and Monitoring Function

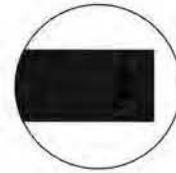
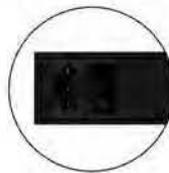
CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

16 A PDU

DESCRIPTION :

- Pulti® V1 made of black anodized aluminium
w = 44 mm (1 U), l = 440 mm (19")
- 2 black smooth end caps
- Input :
1 Wieland GST 18 male input connector, 2 P+E, 10 A 250 V, for power input
+ 1 Wieland GST 18 female output connector 2 P+E, 10 A 250 V, connected to the input for a parallel link
- Output :
1 Wieland ST 18 female output connector, 2 P+E, 10 A 250 V, for a serial link
- 1 double pole thermal and magnetic circuit-breaker, 16 A, with protective cover
- 1 amber 250 V voltage indicator + 1 digital ammeter from 0 to 32 A 250 V, right horizontal display
- 4 IEC 320-C13 connectors, 2 P+E, 10 A 250 V
- Built-in mounting brackets (19")



Reference	Description	Dimensions [mm]
606480	PULTI® Power Distribution with : 1 thermal and magnetic circuit-breaker + 1 amber voltage indicator + 1 digital ammeter + 4 IEC 320-C13 connectors	l 440 x w 44 x h 44

Protection and Monitoring Function

CONCEPT :

- Secure supply to computer equipment - standard 1 U 19"

32 A PDU



DESCRIPTION :

- Pulti® V1 made of black anodized aluminium
- w = 44 mm (1 U), l = 1452 mm
- 1 black end cap with rubber-grommet + 1 black smooth end cap
- Black cable HO5VVF 3 G 6 mm² - 2 m with an IP44 plug, 2 P+E, 32 A 250 V
- 1 digital ammeter from 0 to 32 A 250 V, bottom vertical display

CIRCUIT 1 :

- 1 double pole thermal and magnetic circuit-breaker 16 A
- + 1 amber 250 V voltage indicator
- 2 IEC 320-C19 connectors, 2 P+E, 16 A - 250 V
- 10 IEC 320-C13 connectors, 2 P+E, 10 A - 250 V

CIRCUIT 2 :

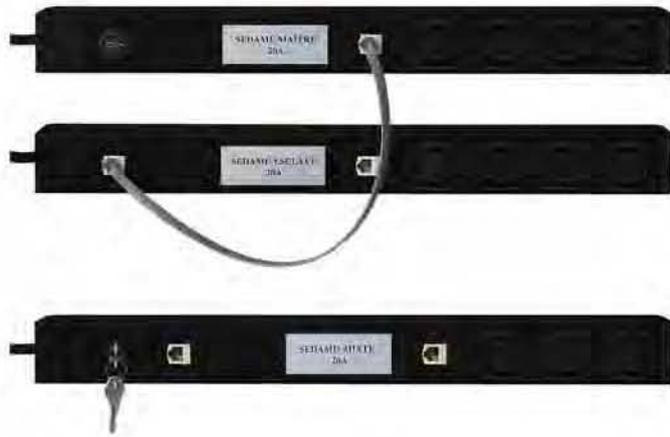
- 1 double pole thermal and magnetic circuit-breaker 16 A
- + 1 amber 250 V voltage indicator
- 2 IEC 320-C19 connectors, 2 P+E, 16 A - 250 V
- 10 IEC 320-C13 connectors, 2 P+E, 10 A - 250 V

Reference	Description	Dimensions (mm)
606481	PULTI® Power Distribution with : Circuit 1 : 1 thermal and magnetic circuit-breaker + 1 amber voltage indicator + 2 IEC 320-C19 connectors + 10 IEC 320-C13 connectors Circuit 2 : 1 thermal and magnetic circuit-breaker + 1 amber voltage indicator + 2 IEC 320-C19 connectors + 10 IEC 320-C13 connectors	l 1452 x w 44 x h 44

CONCEPT :

From a local or remote command, sequential switch-on and switch-off of several socket-outlets and connectors.

- The start order is given :
 - a) on the "master", by a single-pole switch,
 - b) on the 1st "slave", by a signal coming from the "master" via a one pair cable,
 - c) on the following "slaves" by a signal coming from the previous "slave".
- The links between modules are made at very low voltage through a male-male cable (RJ 12).



APPLICATION :

From a local or remote command, sequential switch-on and switch-off of several socket-outlets and connectors.

- The start order is given :
 - a) on the "master", by a single-pole switch,
 - b) on the 1st "slave", by a signal coming from the "master" via a one pair cable,
 - c) on the following "slaves" by a signal coming from the previous "slave".
- The links between modules are made at very low voltage through a male-male cable (RJ 12).

DESCRIPTION :

- PDU made of black anodized aluminium.
- The function is available as three modules depending on the application :
 - 1) "master" : starter supply,
 - 2) "slave" : second and following in cascade,
 - 3) "mixed" : equipped with a mechanical switch (key) in order to isolate one single PDU from the chain as to live the other outlet on.
- Each module can control a maximum of 4 or 8 tap-offs or outputs (5 A max. per outputs).
- Switch-on operations are spaced by around 200 ms and switch-off are spaced by around 400 ms in the same order.
- All these products are equipped with a HO5VVF 3 G 1,5 mm² - 2 m cable, with a mixed french/german moulded plug 16 A 250 V.
- Fixation brackets for 19" horizontal mount or for flat mount please ask us.

Reference	Description	Dimensions (mm)
606487	PULTI® Power Distribution autonomous unit with : 4 IEC 320-C13 connectors	1 440 x w 44 x d 44
606488	PULTI® Power Distribution autonomous unit with : 8 IEC 320-C13 connectors	1 440 x w 44 x d 88
606489	PULTI® Power Distribution daisy-chainable unit "master" with : 4 IEC 320-C13 connectors	1 288 x w 44 x d 88
606490	PULTI® Power Distribution daisy-chainable unit "slave" with : 4 IEC 320-C13 connectors	1 288 x w 44 x d 88
606491	PULTI® Power Distribution daisy-chainable unit "mixed" with : 4 IEC 320-C13 connectors	1 332 x w 44 x d 88
606492	PULTI® Power Distribution daisy-chainable unit "master" with : 4 IEC 320-C13 connectors	1 440 x w 44 x d 44
606493	PULTI® Power Distribution daisy-chainable unit "slave" with : 4 IEC 320-C13 connectors	1 440 x w 44 x d 44
606494	PULTI® Power Distribution daisy-chainable unit "mixed" with : 4 IEC 320-C13 connectors	1 440 x w 44 x d 44
030087	RJ 12 cable	1 500

NOTA

- Other types of socket-outlets upon request : french, german, english, swiss, american, italian.
- Other plugs on request : french/german, english, swiss, italian, american, IEC, Wieland.

Dual Input Auto-Switching Function

CONCEPT :

- Auto-switch from your primary source to your secondary power source
- Once your primary power source becomes available again, the unit will auto-switch to your primary power source

20 A auto transfert switch



DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
- w = 44 mm [1 U], l = 440 mm [19"]
- 1 black end cap with rubber-grommet + 1 black smooth end cap
- Power : 20 A / 230 V / 4 600 kVA
- Input : 1 black cable and 1 grey cable of 6 m, 3 G 1,5 mm², with a mixed french/german moulded plug 16 A - 250 V identified "primary source" and "secondary source"
- 1 green led for "primary source"
- 1 amber led for "secondary source"
- Relay rating : 20 A, release time 15 ms
- Output : 2 black french socket-outlets, 2 P+E, 16 A 250 V with socket-contact covers
- Mounting brackets supplied [19"]

Reference	Description	Dimensions (mm)
620925	PULTI® Power Distribution with : 1 dual input auto-switching + 2 french socket-outlets	1440 x w 44 x h 44

19"

Dual Input Auto-Switching Function

CONCEPT :

- Auto-switch from your primary source to your secondary power source
- Once your primary power source becomes available again, the unit will auto-switch to your primary power source
- The circuit-breaker keeps protecting the PDU whether if the primary source or secondary source is connected

20 A auto transfert switch



DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
w = 44 mm [1 U], l = 440 mm [19"]
- 1 black end cap with rubber-grommet
+ 1 black smooth end cap
- Power : 20 A / 230 V / 4 600 kVA
- Input : 1 black cable and 1 grey cable of 6 m, 3 G 1,5 mm², with a mixed french/german moulded plug 16 A - 250 V identified "primary source" and "secondary source"
- 1 green led for "primary source"
- 1 amber led for "secondary source"
- Relay rating : 20 A, release time 15 ms
- 1 double pole thermal and magnetic circuit-breaker, 20 A 230 V, "C" tripping curve, rated breaking capacity 10 kA
- Output : 2 black french socket-outlets, 2 P+E, 16 A 250 V with socket-contact covers
- Mounting brackets supplied [19"]

Reference	Description	Dimensions (mm)
620926	PULTI® Power Distribution with : + 1 dual input auto-switching + 1 double pole thermal and magnetic circuit-breaker + 2 french socket-outlets	l 440 x w 44 x h 44

Dual Input Auto-Switching Function

CONCEPT :

- Auto-switch from your primary source to your secondary power source
- Once your primary power source becomes available again, the unit will auto-switch to your primary power source
- The circuit-breaker keeps protecting the PDU whether if the primary source or secondary source is connected

20 A auto transfert switch



DESCRIPTION :

- Pulti® V2 made of black anodized aluminium
- w = 44 mm [1 U], l = 440 mm [19"]
- 2 black end caps with rubber-grommet
- Power : 20 A / 230 V / 4 600 kVA
- Input : 2 connecting blocks identified "primary source" and "secondary source"
- 1 green led for "primary source"
- 1 amber led for "secondary source"
- Relay rating : 20 A, release time 15 ms
- 1 double pole thermal and magnetic circuit-breaker, 20 A 230 V, "C" tripping curve, rated breaking capacity 10 kA
- Mounting brackets supplied [19"]

Reference	Description	Dimensions [mm]
620927	PULTI® Power Distribution with : 1 dual input auto-switching + 1 double pole thermal and magnetic circuit-breaker	l 440 x w 44 x h 44

19"

Dual Input Auto-Switching Function

CONCEPT :

- Auto-switch from your primary source to your secondary power source
- Once your primary power source becomes available again, the unit will auto-switch to your primary power source
- The circuit-breaker keeps protecting the PDU whether if the primary source or secondary source is connected

20 A auto transfert switch

DESCRIPTION :

- Pulti[®] V2 made of black anodized aluminium
w = 44 mm (1 U), l = 308 mm
- 2 black end caps with rubber-grommet
- Power : 20 A / 230 V / 4 600 kVA
- Input : 2 connecting blocks identified "primary source" and "secondary source"
- 1 green led for "primary source"
- 1 amber led for "secondary source"
- Relay rating : 20 A, release time 15 ms
- 1 double pole thermal and magnetic circuit-breaker, 20 A 230 V, "C" tripping curve, rated breaking capacity 10 kA
- Mounting brackets supplied (19") range of adjustment for the fixation : 313 mm to 310 mm



Reference	Description	Dimensions (mm)
620928	PULTI [®] Power Distribution with : 1 dual input auto-switching + 1 double pole thermal and magnetic circuit-breaker	l 308 x w 44 x h 44

Automatic Switching of Electrical Power Lines

CONCEPT :

- Automatic switching from the main supply to the back-up supply
- Automatic return to primary supply as soon as it is detected as restored
- Can be hard-wired or installed in-line as an extension device

DESCRIPTION :

- Body made of black anodized aluminium
- Dim. l 190 x w 59,6 x h 56,5 mm
- 1 black end cap with a rubber-grommet
- + 1 black end cap with 1 or 2 connectors for the output
- Power rated : 20 A
- Switching time : 15 ms
- Input :
- main line : black cable
3 G 2,5 mm² - 3 m
- security line : white cable
3 G 2,5 mm² - 3 m
- Output : 1 or 2 Wago connectors Winsta range
- Mounting brackets supplied

20 A automatic switch



Reference	Description	Dimensions [mm]
652102	PULTI® Power Distribution with : 1 automatic switch + 1 Wago connector (output)	l 190 x w 59,6 x h 56,5
652103	PULTI® Power Distribution with : 1 automatic switch + 2 Wago connectors (output)	l 190 x w 59,6 x h 56,5

HIGH DESIGN AND BUILD QUALITY TO ENSURE ELECTRICAL RELIABILITY

Internal connection of sockets by double-contact bars :

- Cross-section area of 4 mm²
- High contact surface between the pin of the plug and the female contact of the socket
- High mechanical strength
- No resistive discontinuity between socket-outlets

ERGONOMIC 19" STANDARD EQUIPMENT

- Power distribution unit designed for the 19" standard
- 44 mm modules in compliance with the 19" 1U standard IEC 297-3 (NF C 20-152)
- Body made of black anodized aluminium
- Extremely compact solution
- Sockets 45° oriented

SAFETY FACTOR

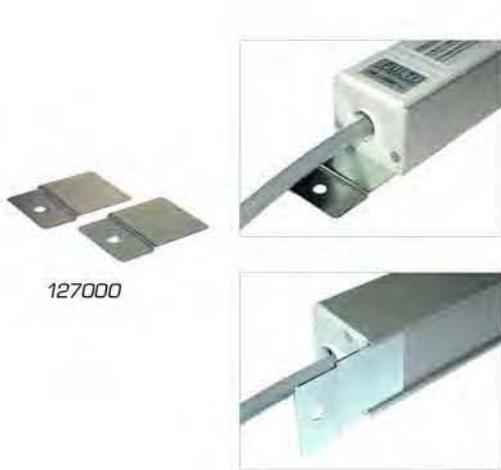
- Products in compliance with the country standard where it is used
- Use of high-quality plastic materials : fire-resistant, halogen free, insensitive to ultra violet rays
- In compliance to grow-wire test at 750°C

HIGH FLEXIBILITY TO MATCH ALL REQUIREMENTS

- A modular system allowing numerous of operational configurations
- A combination of power and low voltage accessories with their associated protections
- A large collection of fixings and accessories

Mounting brackets for PULTI® I.P Monitoring & PULTI® Power Distribution Unit V1

- Pair of mounting brackets :
- on 19 " racks : **PE** model
 - in any flat position and on the back side of 19" racks : **PB** model
 - for wall partition or enclosure's frame : **PC** model



Reference	Designation	Matter
127000	2 mounting brackets (PB model)	White zinc coated steel
127002	2 mounting brackets (PB model)	White zinc coated steel
127035	2 mounting brackets (PB model)	White zinc coated steel
127005	2 mounting brackets (PE model)	White zinc coated steel
127003	2 mounting brackets (PC model)	White zinc coated steel

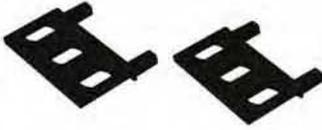


Mounting brackets for PULTI® Power Distribution Unit V2 only

Mounting brackets made of polycarbonat or white zinc coated steel, for a perfect fitting on 19" racks in any position.



127024



XXXXXX



127034

Reference	Designation	Matter
127024	2 mounting brackets	Grey polycarbonat
127031	2 mounting brackets	Black polycarbonat
127034	2 mounting brackets	White zinc coated steel





Velcro strip

Fixation on any type of supports
Sold by the meter

Reference	Designation	Length
140013	Velcro strip	the meter



Adhesive magnetic plate

Fixation on any metallic supports

Reference	Designation	Dimensions (mm)
140018	Adhesive magnetic plate	l 100 x w 35
140015	Adhesive magnetic plate	l 160 x w 35
140017	Adhesive magnetic plate	l 250 x w 35
140024	Adhesive magnetic plate	l 320 x w 35



Configurations and Options Available

For PDU PULTI® I.P Monitoring and PULTI® Power Distribution Unit only

The products on this document are only examples of the many configurations which we propose. Do not hesitate to contact us to adapt the products according to your own needs.

