

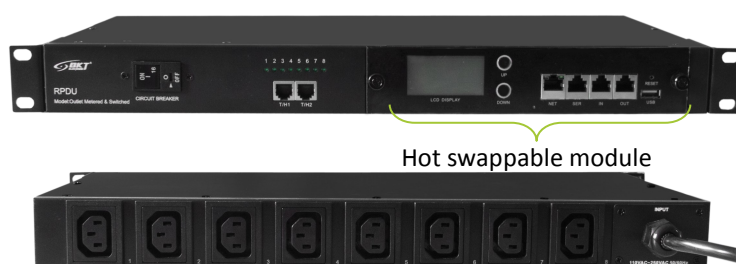
PDU NPM manageable 8 prises + 2 ports capteur

The power distribution unit RPDU gives you complete control over your rack-mounted devices, with remote and local controls. It allows you to monitor electrical parameters: supply voltage [V], current load [A], active power consumption [W], energy meters [kWh]. It allows you to take action on an ongoing basis if the defined alarm thresholds are exceeded.

The RPDUs are equipped with a number of protocols for secure communication with network infrastructures (HTTPS, SNMP v3, SysLog, SSL, SSH, Radius). The measuring accuracy is $\pm 1\%$ for energy meters and load measurement.

Additionally, the RPDU allows the monitoring of environmental parameters in the server cabinet or server room using the connected sensors: temperature / humidity, door opening, flood or smoke.

The RPDU is equipped with an electronic control panel for viewing the current parameters.



Standards

EN 60950-1, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

Features

Index no.	NBM08C02
Functionality	Switching and measurement each sockets
Power plug	DIN 49441 16A/250V
Cable	H05VV-F 3 x 1.5 mm ² , 3.0 m, black
Sockets	8 x IEC320 C13 10A/250V
Circuit breaker	1x16A
Additional components	Lack
Ports for connecting sensors	2 x Temperature/Humidity
Maximum unit load	16A
Unit rated power	3680W
Dimensions (L x W x D) [mm]	483 x 44 x 216
Housing	1U 19", black aluminum
Movable brackets (front/rear)	
Power plug view	
Working conditions	Temperature 0°C ÷ 55°C Humidity 10% ÷ 90%

SOCKETS 10A/250V IEC320 C13	RATED POWER 3.7 kW
CABLE LENGTH 3.0 m	WARRANTY 2 YEARS

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Functionality

Functions	Description
Monitoring	Total unit current load [A]
	Current load at each socket [A]
	Unit power supply voltage [V]
	Total power consumption [kWh]/with the energy meter reset function
	Power consumption for each socket [kWh]/with the energy meter reset function
	Power factor [PF]
	Total power input for the whole unit [kW]
	Input power for each socket [kW]
	Temperature/humidity
	Water, smoke, door opening (extension with an additional module Sensor-Box)
Sockets and group of sockets deactivation/activation	Yes
Signaling	Visual signaling of the socket power supply (LED indicator)
Configuration	Thresholds total unit current load [A] [min/max]
	Thresholds current load at each socket [A] [min/max]
	Delay in sequential switching of each socket
	Unit operation mode: Master/Slave
	Ethernet , DHCP and WiFi interface
	NTP, RADIUS, SYSLOG, SMTP, SNMP, HTTP, HTTPS, Telnet, SSH, FTP
	Accounts and rights of users and administrators
	Temperature/humidity range [min/max]
	ON/OFF sockets schedule
	Sockets grouping
Communication	Web interface (HTTP, HTTPS) accessed through IE, Opera, Chrome and Firefox browsers
	Ethernet TCP/IP v4, WiFi
	SNMP (V1, V2c, V3), Telnet, SSH, RS232, ModBus RTU*
Supported sensors	Temperature/humidity (standard)
	Door opening, water, smoke (after the extension of the additional sensor module)
Available hardware ports	1 port RJ45 port 10/100 Mbit/s
	2 RJ11 ports for connecting temperature / humidity sensors
	2 RJ45 serial transmission ports RS485 for Master / Slave cascade support
	1 RJ45 port for RS485 serial transmission (ModBus RTU*)
	1 USB A port (slot 2.0)

*Limited Functionality

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Functionality

Functions		Description
Cascade Connections		Possible to connect up to 5 units in Master/Slave system (1+4)
Alarms	System Alarms	Total current-load [A]
		Exceeded current-load of each outlet [A]
		Sensor: temperature/humidity
		Sensors: water, smoke, door opening (extension with an additional module Sensor-Box)
	Alarm Threshold Config	Total current-load of the RPDU [A] [min/max]
		Exceeded current-load of each outlet [A] [min/max]
		Temperature/humidity [min/max]
	Ways of Alarming	Internal built-in alarm (buzzer)
		Displaying alarm information on LCD/LED display
		Alarm notification over Web interface
		Sending alarm information to e-mail address
		Sending SNMP Traps
		Through SYSLOGS protocols

Optional accessories

temperature/humidity sensor index no. CABHT		Sensor-Box environmental monitoring module	
door sensor* index no. CABPR		Index no. NBMCBOX06	
smoke sensor* index no. CABFU		Number of sensor ports	6 x RJ12
flood sensor* index no. CABEA		Number of sensors supported	2 x temperature/humidity sensor, 2 x door sensor, 1 x flood sensor, 1 x smoke sensor
		View of the power supply 250V AC/12V DC	
		Power adapters DIN49440/IEC C14	
		DIN49440/IEC C19	

*Required additional module Sensor-Box



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FICHE TECHNIQUE

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Web interface

Operation of the unit can be supervised with a multi-user web interface allowing for monitoring, management and administration.

It can be used to:

- Verify current total load for each phase
- Verify current power supply voltage for each phase
- Verify total power for each phase
- Verify total power consumption for each phase
- Possible configuration of network (LAN/WiFi), access (HTTP, HTTPS), protection (RADIUS) parameters
- Memory of the last state in the case of a reset
- Display indications and status of temperature and humidity sensor
- Read status of alerts and alert values
- Adding, remove and edit users
- Graphic visualisation of load current, voltage, temperature and humidity

Item	Name	State	Current(A)	Power(W)	Power Factor	Critical
1	Output1	OFF	0.0	0.000	0.00	Normal
2	Output2	ON	0.0	0.000	0.00	Normal
3	Output3	ON	0.0	0.000	0.00	Normal
4	Output4	ON	0.0	0.000	0.00	Normal
5	Output5	ON	0.0	0.000	0.00	Normal
6	Output6	ON	0.0	0.000	0.00	Normal
7	Output7	ON	0.0	0.000	0.00	Normal
8	IPD1000	ON	0.0	0.000	0.00	Normal

Summary statistics:

- Total Load: 0.0A
- Total Voltage: 224V
- Power Factor: 0.00
- Power: 0.000kW
- Total Energy: 0.0kWh

Item	Name	Group1	Group2	Group3	Group4	Group5	Group6
1	Output1	☐	☐	☐	☐	☐	☐
2	Output2	☐	☐	☐	☐	☐	☐
3	Output3	☐	☐	☐	☐	☐	☐
4	Output4	☐	☐	☐	☐	☐	☐
5	Output5	☐	☐	☐	☐	☐	☐
6	Output6	☐	☐	☐	☐	☐	☐
7	Output7	☐	☐	☐	☐	☐	☐
8	IPD1000	☐	☐	☐	☐	☐	☐

Item	Name	Current value	Min	Max	Save
1	Temperature1	0	0	40	Save
2	Temperature2	0	0	40	Save
3	Temperature3	0	0	40	Save
4	Temperature4	0	0	40	Save
5	Humidity1	0	0	99	Save
6	Humidity2	0	0	99	Save
7	Humidity3	0	0	99	Save
8	Humidity4	0	0	99	Save
9	Total Load(L1)	0.0	0.0	16.0	Save

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Measurement module

Category		Range	Unit	Resolution	Accuracy	Response time
Voltage	230 ¹	120-240	V	1	±1%m.v +3digits	400 ms
Total current	x	0.1-10	A	0.1 ²	±1%m.v +2digits	400 ms
Outlet current	x	0.1-10 for IEC320 C13	A	0.1 ²	±1%m.v +1digit	400 ms
Power	x	0-3680	W	0.001	±2%m.v	400 ms
Frequency	x	46-65	Hz	1	±1%Hz	400ms
Power factor	x	0-1	--	0.01	±1%m.v +2digits	400 ms
Total energy	x	999999.9	kWh	0.1	±1%m.v	400 ms
Outlet energy	x	999999.9	kWh	0.1	±1%m.v	400 ms

¹ line-to-line voltage

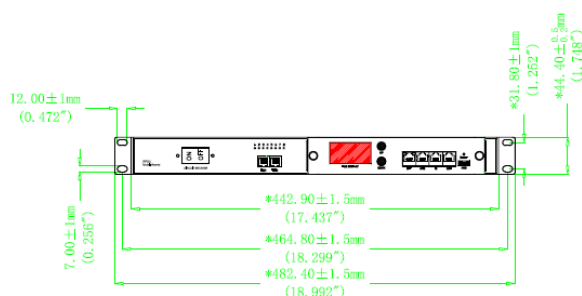
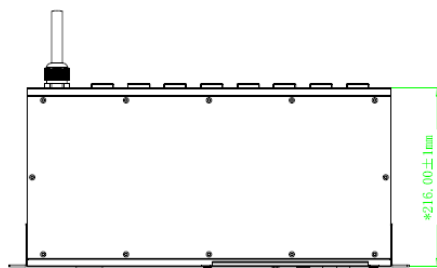
² min indication load: 0.2A

m.v - measured value

Physical properties



IEC60320 C13



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Characteristics of the magnetic-hydraulic circuit breaker

Tripping time characteristics

Times rated current	1,25In	1.5In	2In	4In	6In	8In
Tripping time [sec]	0.7-12	0.35-7	0.13-3	0.03-1	0.01-0.3	0.01-0.15

Technical data of the circuit breaker

1	Type	magnetic-hydraulic
2	Rated current	16A
3	Voltage current	250VAC
4	Max voltage	277VAC, 80VDC
5	Number of poles	1P
6	Interrupting capacity	3000A
7	Mechanical cycle life	10.000 cycle
8	Electrical cycle life	6.000 cycle
9	Working conditions	-40°C to +85°C
10	Compliance with the norm	EN60934

Time Delay Curve Diagram

