









BACHMANN BlueNet – Smart Solutions

BlueNet Software
FULL REMOTE CONTROL
[BN3000 – BN7500]

Intelligent IT Energy Management System BN2000 – BN7500 Series





BlueNet offers a complete solution for structuring, controlling and remote monitoring IT power supply systems via exclusive BlueNet software.

| | PDUs for metering tasks | | | PDUs for switching and metering tasks | |
|---|-------------------------|--------|--------|---------------------------------------|--------|
| | BN2000 | BN3000 | BN3500 | BN7000 | BN7500 |
|  Surge protection | (•) | (•) | (•) | (•) | (•) |
|  Measurement per phase | • | • | • | • | • |
|  Ethernet | • | • | • | • | • |
|  Sensors | • | • | • | • | • |
|  Modbus RTU/TCP | | • | • | • | • |
|  Type B RCM | | (•) | (•) | (•) | (•) |
|  Switching | | | | • | • |
|  Measurement per port | | | • | | • |






BlueNet
Efficient Power Management

**BACH
MANN**
We power your life.

Why Choose BACHMANN PDUs?

| | CORE FEATURES | DESCRIPTION | BENEFIT |
|--|--|--|---|
|  <p>Work-From-Anywhere Monitoring</p> | <p>BlueNet software</p> | <ul style="list-style-type: none"> BlueNet software via Ethernet interface integrated in the PDUs, allow monitor data from in or out of office anywhere and anytime | <ul style="list-style-type: none"> Remote switching* Allow respond with automated actions via alarm chains defined in BlueNet software. Optimising operation in data centre, result in effective energy consumption MIB data file for implementing BlueNet PDUs in a higher-level monitoring or DCIM system (DCIM: Data Centre Infrastructure Management) |
|  <p>Saving Costs & Minimize Complexity</p> | <p>Cascading using Master-Slave Concept</p> | <ul style="list-style-type: none"> 1 BlueNet master PDU can manage up to 11 BlueNet slave PDUs via a Modbus connection Simply only 1 network port and 1 IP address is needed | <ul style="list-style-type: none"> Only 1 network port is needed, saving on expensive network ports Communication less complex with less number of IP addresses required Define groups of outlet ports, allows to reset multiple power supply units of a service or switch at the same time |
|  <p>Optimizing Energy Consumption</p> | <p>BlueNet Sensors</p> | <ul style="list-style-type: none"> BlueNet temperature sensor, combination sensor (temperature/air humidity) and the GPIO Module help to optimize operation of a data centre If values exceed or fall below configurable threshold values, signal will be detected | <ul style="list-style-type: none"> Easy measurement of temperature & air humidity Availability of the data centre can be guaranteed, loss of data due to sudden interruptions can be avoided Configurable setting through BlueNet system |
|  <p>Customize Ordering</p> | <p>BACHMANN Customisation Modular</p> | <ul style="list-style-type: none"> A wide range of country-specific outlet ports, protection options such as modular surge protection or Residual Current Monitoring Tailor-made units that extend beyond the standard product range Enable small quantities ordering | <ul style="list-style-type: none"> Your needs will be fully considered Facilitate achieving optimum energy management & stability at data centre |

* Per phase and per port for BN7000 & BN7500

| | CORE FEATURES | DESCRIPTION | BENEFIT |
|---|---|--|--|
|  <p>Optimize Energy Cost</p> | <p>Energy Monitoring and Management</p> | <ul style="list-style-type: none"> • Can take measurement for each phase at the input of every PDU or for each output phase / port depending on the product series used. | <ul style="list-style-type: none"> • Effective measuring, assessing and optimizing energy efficiency and cost • More efficient capacity planning • High measuring accuracy of +- 1% billing accuracy |
|  <p>Identifying Power Supply</p> | <p>Colour Coding</p>  | <ul style="list-style-type: none"> • To quickly distinguish between PDUs and match them up easier in the rack, the BlueNet PDUs are available in different colours. • Different application or customer areas in the data centre (known as cages) can also be equipped with differently coloured PDUs. | <ul style="list-style-type: none"> • Faster differentiation, easier matching of PDUs in the rack • Different colours for cages in the data centre • Simpler installation, mounting or maintenance |
|  <p>Guarantee Safety of Your Device</p> | <p>Surge Protection Device (SPD)</p> | <ul style="list-style-type: none"> • Type 3 SPD protection modules can be installed with Bachmann PDUs • Alarm can be issued as a signal sequence, visualized in the BlueNet software | <ul style="list-style-type: none"> • Increase the level of protection for your sensitive and expensive IT devices • Able to replace tool-free during operation • Cheaper way to restore function of the surge protection device |
|  <p>Greater Safety for Your Data Centre</p> | <p>Type B Residual Current Monitoring (RCM)*</p> | <ul style="list-style-type: none"> • Via BlueNet PDU, this residual current monitoring can be done at rack leave in every PDU and even for each phase, allow immediate action to be activated. • AC / DC sensitive technology (type B) monitors all kinds of residual current and enables the user to differentiate between alternating (AC) and direct (DC) residual currents | <ul style="list-style-type: none"> • Residual current sensor conforms to EN 62020 provides a high physical granularity, maximum safety and high availability • Greater safety for people, operations and systems • Retests require less effort • Greater fire protection |

* Per phase and per port for BN7000 & BN7500

Other Features Highlight

| | BN2000 | BN3000 - BN7500 |
|---|--|---|
| Measurement: | Current, voltage, phase angle, frequency, effective power, reactive power, apparent power, energy meter, power factor, neutral conductor monitoring, measuring accuracy 1% | Current, voltage, frequency, effective power, reactive power, apparent power, energy meter, power factor, neutral conductor monitoring, measuring accuracy 1% |
| Display: | TFT, display can be rotated using software | OLED, display can be rotated using software |
| Operation: | Web browser, local | Web browser, local |
| Connections: | 2 sockets for external sensors | USB,, 2 sockets for external sensors, floating, digital input, floating relay output |
| Communication: <small>* Application example: DCIM</small> | IPv4, HTTP, DHCP, SNMPv2, SNMP Trap, Syslog, NTP | IPv4, IPv6, ModBus TCP, HTTP, HTTPS, SSH, DHCP, SMTP, SNMPv2, SNMPv3, SNMP Trap, Syslog, NTP, LDAP, JSON |

Cost Comparison

| BN2000 | BN3000 | BN3500 | BN7000 | BN7500 |
|------------------------|------------------------|------------------------|------------------------|------------------------|
| Economic Choice | Value for Money | Value for Money | Max Performance | Max Performance |
| \$ | \$ \$ | \$ \$ | \$ \$ \$ | \$ \$ \$ |

BN7500

3.0m H05VV-F supply cable with CEE plug | Including mounting kit

| # | Slave variant | C13 | C19 | CEE 7/3 | Outlets in total | For at least 46U server racks | Dimensions (W x H x D) |
|-----------------|---------------|-----|-----|---------|------------------|-------------------------------|------------------------|
| 16A/230V | | | | | | | |
| 802.7500 | | 18 | 4 | | 22 | | 1234x44x65mm |
| 32A/230V | | | | | | | |
| 802.7501 | | 16 | 4 | | 20 | | 1234x44x65mm |
| 32A/400V | | | | | | | |
| 802.7509 | | 24 | 6 | | 30 | | 1762x44x65mm |



802.7500



802.7501



802.7509

BN7500 RCM

16A/400V/Residual Current Monitoring per phase

| | | | | | | | |
|----------|--|----|---|--|----|--|--------------|
| 802.7521 | | 24 | 6 | | 30 | | 1762x44x65mm |
|----------|--|----|---|--|----|--|--------------|



802.7521

BN7000

3.0m H05VV-F supply cable with CEE plug | Including mounting kit

| # | Slave variant | C13 | C19 | CEE 7/3 | Outlets in total | For at least 46U server racks | Dimensions (W x H x D) |
|-----------------|---------------|-----|-----|---------|------------------|-------------------------------|------------------------|
| 16A/230V | | | | | | | |
| 802.7000 | | 18 | 4 | | 22 | | 1234x44x65mm |
| 32A/230V | | | | | | | |
| 802.7001 | | 16 | 4 | | 20 | | 1234x44x65mm |
| 32A/400V | | | | | | | |
| 802.7009 | | 24 | 6 | | 30 | | 1762x44x65mm |



802.7000



802.7001



802.7009

BN7000 RCM

16A/230V/Residual Current Monitoring per supply cable

| | | | | | | | |
|----------|--|----|---|--|----|--|--------------|
| 802.7024 | | 18 | 4 | | 22 | | 1500x44x65mm |
|----------|--|----|---|--|----|--|--------------|



BN3500

3.0m H05VV-F supply cable with CEE plug | Including mounting kit

| # | Slave variant | C13 | C19 | CEE 7/3 | Outlets in total | For at least 46U server racks | Dimensions (W x H x D) |
|-----------------|---------------|-----|-----|---------|------------------|-------------------------------|------------------------|
| 16A/230V | | | | | | | |
| 802.3500 | | 18 | 4 | | 22 | | 1234x44x65mm |
| 32A/230V | | | | | | | |
| 802.3501 | | 16 | 4 | | 20 | | 1234x44x65mm |
| 32A/400V | | | | | | | |
| 802.3509 | | 24 | 6 | | 30 | | 1762x44x65mm |



802.3500



802.3501



802.3509

BN3500 RCM

16A/230V/Residual Current Monitoring per supply cable

| | | | | | | | |
|----------|--|----|---|--|----|--|--------------|
| 802.3525 | | 18 | 4 | | 22 | | 1500x44x65mm |
|----------|--|----|---|--|----|--|--------------|

BN3000

3.0m H05VV-F supply cable with CEE plug | Including mounting kit

| # | Slave variant | C13 | C19 | CEE 7/3 | Outlets in total | For at least 46U server racks | Dimensions (W x H x D) |
|-----------------|---------------|-----|-----|---------|------------------|-------------------------------|------------------------|
| 16A/230V | | | | | | | |
| 802.3004 | | 16 | 4 | | 20 | | 1102x44x65mm |
| 16A/400V | | | | | | | |
| 802.3012 | | 24 | 6 | | 30 | | 1533x44x65mm |
| 32A/400V | | | | | | | |
| 802.3013 | | 24 | 6 | | 30 | | 1762x44x65mm |



802.3004



802.3012



802.3013

BN3000 RCM

16A/230V/Residual Current Monitoring per supply cable

| | | | | | | | |
|----------|--|----|---|--|----|--|--------------|
| 802.3055 | | 16 | 4 | | 20 | | 1103x44x65mm |
|----------|--|----|---|--|----|--|--------------|



802.3055

32A/400V/Residual Current Monitoring per phase

| | | | | | | | |
|----------|--|----|---|--|----|--|--------------|
| 802.3025 | | 24 | 6 | | 30 | | 1873x44x65mm |
|----------|--|----|---|--|----|--|--------------|



802.3025

BN2000

3.0m H05VV-F supply cable with CEE plug | Including mounting kit

| # | Cable length (m) | Plug | Phase(s) | C13 | CEE 7/3 | C19 | C16A miniature circuit breaker | Outlets in total | Dimensions (W x H x D) |
|---|------------------|------|----------|-----|---------|-----|--------------------------------|------------------|------------------------|
|---|------------------|------|----------|-----|---------|-----|--------------------------------|------------------|------------------------|

16A/400V

| | | | | | | | | | |
|----------|---|-----|---|----|--|---|--|----|--------------|
| 329.3013 | 3 | CEE | 3 | 36 | | 6 | | 42 | 1758x44x47mm |
|----------|---|-----|---|----|--|---|--|----|--------------|

32A/230V

| | | | | | | | | | |
|----------|---|-----|---|----|--|----|---|----|--------------|
| 329.3056 | 3 | CEE | 1 | 24 | | 4* | 2 | 28 | 1331x44x47mm |
|----------|---|-----|---|----|--|----|---|----|--------------|

32A/400V

| | | | | | | | | | |
|----------|---|-----|---|----|--|----|---|----|--------------|
| 329.3058 | 3 | CEE | 3 | 24 | | 6* | 6 | 30 | 1883x44x47mm |
|----------|---|-----|---|----|--|----|---|----|--------------|



329.3056



329.3058

Accessories:

BlueNet BN3000 – BN7500 sensors

| # | Description |
|---|---|
| 802.0100 | GPIO Module (see page 259) |
| Including 2.0m CAT 5e supply cable with RJ45 plug on both ends | |
| 802.0101 | Temperature sensor |
| 802.0102 | Combination temperature and air humidity sensor |



802.0100

802.0101

802.0102

Plug interlocks

| # | Description |
|----------|---|
| 940.103 | Locking clips C13, 2-way Red Set for 12 C13 outlets |
| 802.0010 | Interlock C13/C19 universal height (6 units) |
| 940.191 | SecureSleeve C14 Red 6 units |
| 940.192 | SecureSleeve C14 Black 6 units |
| 940.193 | SecureSleeve C20 Red 6 units |
| 940.194 | SecureSleeve C20 Black 6 units |



940.103

802.0010

940.191

940.192

Locking caps IEC60320 C13 & C19

| # | Description |
|----------|--|
| 800.0050 | C19 locking caps 10 items incl. unlocking tool |
| 800.0051 | C13 locking caps 10 items incl. unlocking tool |
| 800.0052 | Unlocking tool for locking cap |



800.0050

800.0051

800.0052

Replacement mounting accessories (BN3000 – BN7500)

| # | Description |
|----------|---|
| 800.0001 | Universal mounting kit |
| 800.0002 | Mounting kit, rear |
| 800.0003 | Mounting kit, side |
| 800.0005 | Universal mounting kit with double holder |



800.0001

800.0002

800.0003

800.0005

802.0005

Mounting options



802.0001

802.0002

802.0003

802.0005

* With integrated IEC lock

About us

IT power distribution



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in developing, manufacturing and distributing high-quality power distribution solutions

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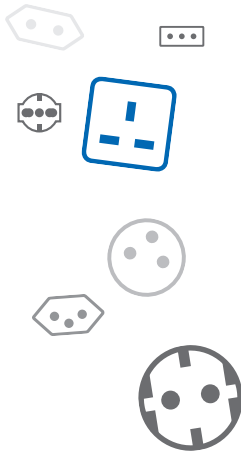


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