

# Data sheet / Datenblatt

## I-S-PDU 01-16/16-2-02\_BK

Item no. / Artikel-Nr.: **7860232**



### Standard information / Standardinformationen

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p><b>Order Text</b></p> | <p>iQdata Smart Rack-PDU</p> <p>Measurement per phase &amp; Measurement per sockets<br/> Profile color: Black<br/> Input values: 1ph, 16 A, 230 V AC, 50 Hz<br/> 16x IEC60320 C13 cold socket outlets<br/> 2x IEC60320 C19 cold socket outlets<br/> Supply:<br/> IEC320 C20 16A built-in plug halogen free<br/> Integrated function for measuring voltage, current,<br/> Reactive, apparent, active power, frequency and power factor;<br/> Connectivity:<br/> Data bus: 2xRJ45<br/> Ethernet: RJ45<br/> Sensor port: RJ12<br/> USB<br/> Display: LCD backlight with individual alignment<br/> mounting bracket sold separately</p> <p>packed in carton</p> | <p><b>Bestelltext</b></p> | <p>iQdata Smart Rack-PDU</p> <p>Messung pro Phase &amp; Messung pro Steckdose<br/> Profilfarbe: Schwarz<br/> Eingangswerte: 1ph, 16 A, 230 V AC, 50 Hz<br/> 16x IEC60320 C13 Kaltgerätedosen<br/> 2x IEC60320 C19 Kaltgerätedosen<br/> Zuleitung:<br/> IEC320 C20 16A Einbaustecker halogenfrei<br/> Integrierte Funktion zur Messung von Spannung, Strom,<br/> Blind-, Schein-, Wirkleistung, Frequenz und Leistungsfaktor;<br/> Konnektivität:<br/> Datenbus: 2xRJ45<br/> Ethernet: RJ45<br/> Sensorport: RJ12<br/> USB<br/> Display: LCD-Backlight mit individueller Ausrichtung<br/> Haltewinkel separat erhältlich</p> <p>verpackt im Karton</p> |
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## Features / Merkmale

|                                     |                                                                                                                                                                                                                          |                              |                                                                                                                                                                                                                                                   |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Energy Metering</b>              | Integrated measurements<br>- Energy (total & subtotal)<br>- Voltage (with voltage dip registration)<br>- Current (with peak value registration and drop detection)<br>- Power factor<br>- Apparent power<br>- Real power | <b>Energie Messung</b>       | Integrierte Messungen<br>- Energie (Gesamt- und Zwischensumme)<br>- Spannung (mit Registrierung von Spannungseinbrüchen)<br>- Strom (mit Spitzenwertregistrierung und Abfallerkennung)<br>- Leistungsfaktor<br>- Scheinleistung<br>- Wirkleistung |
| <b>Metering per phase</b>           | Yes                                                                                                                                                                                                                      | <b>Messung pro Phase</b>     | Ja                                                                                                                                                                                                                                                |
| <b>Metering per outlet</b>          | Yes                                                                                                                                                                                                                      | <b>Messung pro Steckdose</b> | Ja                                                                                                                                                                                                                                                |
| <b>Metering accuracy</b>            | +/- 1% (EN50470-3 class B; EN62053-21 class1)                                                                                                                                                                            | <b>Messgenauigkeit</b>       | +/- 1% (EN50470-3 class B; EN62053-21 class1)                                                                                                                                                                                                     |
| <b>Outlet switching</b>             | No                                                                                                                                                                                                                       | <b>Schaltbare Steckdosen</b> | Nein                                                                                                                                                                                                                                              |
| <b>Residual current measurement</b> | No                                                                                                                                                                                                                       | <b>Differenzstrommessung</b> | Nein                                                                                                                                                                                                                                              |
| <b>RCM type</b>                     | -                                                                                                                                                                                                                        | <b>RCM Typ</b>               | -                                                                                                                                                                                                                                                 |

## Communication / Kommunikation

|                                                     |                                                                                                                                                                                                                                                                                                   |                                                        |                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network interface</b>                            | Ethernet<br>10/100 Mbit/s<br>Autosensing                                                                                                                                                                                                                                                          | <b>Netzwerk-Schnittstelle</b>                          | Ethernet<br>10/100 Mbit/s<br>Autosensing                                                                                                                                                                                                                                                                                  |
| <b>Display</b>                                      | LCD-Backlight Display                                                                                                                                                                                                                                                                             | <b>Display</b>                                         | LCD-Backlight Display                                                                                                                                                                                                                                                                                                     |
| <b>Modbus RTU<br/>( Master/Slave communication)</b> | 2x RJ24 connectors;<br>up to 50 PDUs via one IP address;<br>various connection modes (Ethernet, Bridge, Hybrid, Colocation)                                                                                                                                                                       | <b>Modbus RTU<br/>(Für Master/Slave-Kommunikation)</b> | 2x RJ24-Anschlüsse;<br>bis zu 50 PDUs über eine IP-Adresse;<br>versch. Verbindungsmodi (Ethernet, Bridge, Hybrid, Colocation)                                                                                                                                                                                             |
| <b>Supported network protocols</b>                  | IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMPv1, SNMPv2, SNMPv3, SNMP Trap, Modbus TCP, IPAPI                                                                                                                                                                                                     | <b>Unterstützte Netzwerkprotokolle</b>                 | IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMPv1, SNMPv2, SNMPv3, SNMP Trap, Modbus TCP, IPAPI                                                                                                                                                                                                                             |
| <b>USB-Port</b>                                     | USB 2.0 host port                                                                                                                                                                                                                                                                                 | <b>USB-Anschluss</b>                                   | USB 2.0 Host-Anschluss                                                                                                                                                                                                                                                                                                    |
| <b>Sensors</b>                                      | Connection option for an external sensor via RJ12 (sold separately):<br>Sensor for temperature (°C) and rel. humidity (%)<br>Cable length: 2,5m<br>Measuring range: 0 - 100% RH and -40 - +125°C<br>Accuracy: ±2% typical ±3% max. (20-80% RH) und ±0,3°C;<br>alternatively 2x dry input contacts | <b>Sensoren</b>                                        | Anschlussmöglichkeit für einen externen Sensor über RJ12 (separat erhältlich):<br>Sensor für Temperatur (°C) und rel. Luftfeuchtigkeit (%)<br>Kabellänge: 2,5m<br>Messbereich: 0 - 100% RH und -40 - +125°C<br>Genauigkeit: ±2% typisch ±3% max. (20-80% RH) und ±0,3°C;<br>alternativ 2x potentialfreie Eingangskontakte |

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## Input / Stromeingang

|               |                          |                    |                          |
|---------------|--------------------------|--------------------|--------------------------|
| Input plug    | IEC320 C20 built-in plug | Eingangsstecker    | IEC320 C20 Einbaustecker |
| Input cable   | None                     | Zuleitung          | Ohne                     |
| Rated current | 1x 16A                   | Bemessungsstrom    | 1x 16A                   |
| Rated voltage | 230 VAC                  | Bemessungsspannung | 230 VAC                  |
| Phases        | L1 / N / PE              | Phasen             | L1 / N / PE              |
| Frequency     | 50 / 60 Hz               | Frequenz           | 50 / 60 Hz               |

## Output / Stromausgang

|         |                                                                                                                                                                                                                                                                                       |            |                                                                                                                                                                                                                                                                              |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outlets | <p><b>16x IEC60320 C13</b><br/>2-pole with earthing contact<br/>Black, similar to RAL 9005,<br/>10A / 250V~, IP20</p> <p><b>2x IEC60320 C19</b><br/>2-pole with earthing contact<br/>Black, similar to RAL 9005,<br/>16A / 250V~, IP20</p> <p><b>0x CEE 7/3 (type F) (Schuko)</b></p> | Steckdosen | <p><b>16x IEC60320 C13</b><br/>2-polig mit Schutzkontakt<br/>Schwarz, ähnlich RAL 9005,<br/>10A / 250V~, IP20</p> <p><b>2x IEC60320 C19</b><br/>2-polig mit Schutzkontakt<br/>Schwarz, ähnlich RAL 9005,<br/>16A / 250V~, IP20</p> <p><b>0x CEE 7/3 (Typ F) (Schuko)</b></p> |
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## Protection / Schutz

|                                            |    |                                            |      |
|--------------------------------------------|----|--------------------------------------------|------|
| Overload protection                        | No | Überlastschutz                             | Nein |
| Surge protection<br>(Transient protection) | No | Überspannungsschutz<br>(Transientenschutz) | Nein |
| External grounding                         | No | Externe Erdung                             | Nein |

## Physical / Mechanik

|                                   |                                                                |                                     |                                                               |
|-----------------------------------|----------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------|
| Dimensions                        | 870x65x52,5 mm (LxWxH)                                         | Abmessungen                         | 870x65x52,5 mm (LxBxH)                                        |
| Profile                           | Aluminium anodized with stainless steel cover, Black           | Profil                              | Aluminium eloxiert mit Edelstahldeckel, Schwarz               |
| Mounting                          | toolless mounting buttons;<br>mounting bracket sold separately | Montage                             | werkzeuglose Montageknöpfe;<br>Haltewinkel separat erhältlich |
| Plastic materials                 | PA6 GF 30 V1, Glow wire resistant 850°C                        | Kunststoff                          | PA6 GF 30 V1, Glühdraht-Prüfung bis 850°C                     |
| Gravur / Logo /<br>Special Design | None                                                           | Gravur / Logo /<br>Sonderausführung | Keine                                                         |

## Environmental / Umgebungsbedingungen

|                                      |                            |                                    |                                 |
|--------------------------------------|----------------------------|------------------------------------|---------------------------------|
| Maximum elevation                    | 0 - 2000 m                 | Maximale Höhe                      | 0 - 2000 m                      |
| Temperature<br>(operating / storage) | -5 – 60° C / -15 – 85°C    | Temperatur<br>(Betrieb / Lagerung) | -5 – 60° C / -15 – 85°C         |
| Relative humidity                    | 5 – 95% RH. Non condensing | Relative Luftfeuchtigkeit          | 5 – 95% RH. Nicht kondensierend |

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## Compliance / Konformität

| Conformity | CE                                                                                                               | Konformität | CE                                                                                                                             |
|------------|------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| Standards  | 2014/35/EU Low Voltage Directive<br>2014/30/EU Electromagnetic Compliance Directive<br>2011/65/EU RoHS Directive | Normen      | 2014/35/EU Niederspannungsrichtlinie<br>2014/30/EU Elektromagnetische Verträglichkeit-Richtlinie<br>2011/65/EU RoHS-Richtlinie |
|            | LVD: EN62368-1:2014                                                                                              |             | LVD: EN62368-1:2014                                                                                                            |
|            | EMC: EN/IEC 55032:2015; EN/IEC 55035:2017                                                                        |             | EMC: EN/IEC 55032:2015; EN/IEC 55035:2017                                                                                      |

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