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**Expert Bypass Switch 8701**  
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1. **Device Description**

1.1 **Security Advice**

- The device must be installed only by qualified personnel according to the following installation and operating instructions.
- The manufacturer does not accept responsibility in case of improper use of the device and particularly any use of equipment that may cause personal injury or material damage.
- The device contains no user-maintenable parts. All maintenance has to be performed by factory trained service personnel.
- This device contains potentially hazardous voltages and should not be opened or disassembled.
- The device can be connected only to 230V AC (50 Hz or 60 Hz) power supply sockets.
- The power cords, plugs and sockets have to be in good condition. Always connect the device to properly grounded power sockets.
- The device is intended for indoor use only. Do NOT install them in an area where excessive moisture or heat is present.
- Because of safety and approval issues it is not allowed to modify the device without our permission.
- Please note the safety advises and manuals of connected devices, too.
- The device is NOT a toy. It has to be used or stored out of range of children.
- Care about packaging material. Plastics has to be stored out of range of children. Please recycle the packaging materials.
- In case of further questions, about installation, operation or usage of the device, which are not clear after reading the manual, please do not hesitate to ask our support team.
- Please, never leave connected equipment unattended, that can cause damage.
- Connect only electrical devices that do not have limited on-time. I.e. in case of failure, all connected appliances have to cope with a continuous on-time without causing damage.

1.2 **Content of Delivery**

The package includes:

- **Expert Bypass Switch 8701**
- CD-ROM with Manual

1.3 **Description**

The **Expert Bypass Switch 8701** is a mechanical bypass switch for uninterrupted replacement of UPS systems

- Uninterrupted replacement or maintenance of UPS systems through selection switch without shutdown of connected loads
- Switch position „Netz“: Connected loads are operated with mains voltage directly
- Switch position „USV“: Connected loads are operated with UPS system voltage
Device Description

- Clearly visible LED display for switch status
- Low internal power consumption
- Developed and manufactured in Germany

1.4 Installation

Connectors on the rear panel (EBS 8701-1)

1. Load input "von Netz" (IEC C14, max. 10 A)
2. Load output "zur USV" (IEC C13, max. 10 A)
3. Load input "von USV" (IEC C14, max. 10 A)
4. 6 x Load outputs "zur Last" to consumer (IEC C13, max. 10 A)
5. 10 A fuse for load output (1 x IEC C19, max. 16 A)
6. 1x Load output "zur Last" to consumer (IEC C19, max. 16 A)

Block diagram
Connectors on the rear panel (EBS 8701-2)

1. Load input "von Netz" (IEC C20, max. 16 A)
2. Load output "zur USV" (IEC C19, max. 16 A)
3. Load input "von USV" (IEC C20, max. 16 A)
4. 6 x Load outputs "zur Last" to consumer (IEC C13, max. 10 A)
5. 1x Load output "zur Last" to consumer (IEC C19, max. 16 A)

Block diagram

Start-up the device

- Connect the load input "von Netz" to the mains supply.
- Connect the load output "zur USV" with the input of the UPS.
- Connect the load input "von USV" with the output of the UPS.
- Connect the load outputs "zur Last" with the consumer.

⚠️ The 16 A lead plug IEC C19 or IEC C20 are secured as regards their type against unintentional loosening. They must be inserted up to the stop, otherwise there is no secure connection. The plug must not wobble in the socket, or there is no tight connection.
## 1.5 Technical Specifications

| Interfaces                          | 1 x Ethernet port (RJ45)  
|                                    | 1 x Mains supply (IEC C14, max. 10 A)  
|                                    | 4 x Load inputs (IEC C120, max. 16 A)  
|                                    | 4 x Load outputs (IEC C19, max. 16 A)  
|                                    | 2 x RJ45 for external sensor          |
| Environment                        | Operating temperature: 0°C - 50 °C  
|                                    | Storage temperature: -20°C - 70 °C  
|                                    | Humidity: 0% - 95% (non-condensing)  |
| Case                                | powder coated, galvanized steel sheet |
| Measurements                       | 19" (inches), 1 Rack Unit, (Depth 165 mm) |
| Weight                             | approx. 2.2 kg                       |
Operating
2 Operating

2.1 Operating the device

1. Switch between "USV" and "LED"
2. LED indicator "USV" (UPS)
3. LED indicator "NETZ" (Mains)

Settings

In normal operation the switch is set to "USV" and the terminals are powered by the connected UPS. If you want to replace the UPS for maintenance purposes, turn the switch from "USV" to "Netz". Caution: When turning the switch a greater force is necessary, this is normal. In the "Netz" setting the devices are directly supplied from the mains. See the block diagrams in chapter Installation.
Support
3 Support

If you have further questions about installation or operation of the unit, please contact our support team. Furthermore, we present in our support wiki at www.gude.info/wiki FAQs and configuration examples.

3.1 Contact

GUDE Systems GmbH
Von-der-Wettern-Straße 23
51149 Cologne
Germany

Phone: +49-221-912 90 97
Fax: +49-221-912 90 98
E-Mail: mail@gude.info
Internet: www.gude.info
        shop.gude.info

Managing Director: Dr.-Ing. Michael Gude

District Court: Köln, HRB-Nr. 17 7 84
WEEE-number: DE 58173350
Value added tax identification number (VAT): DE 122778228
3.2 Declaration of Conformity

EG Konformitätserklärung
EC Declaration of Conformity

Der Hersteller
The manufacturer
Gude Analog- und Digitalsysteme GmbH
Einrichtstr. 113
50668 Köln (Deutschland)

erklärt hiermit, dass die folgenden Produkte / hereby declares that the following products

Produktbezeichnung
Product name
Expert Bypass Switch 8701-1
Expert Bypass Switch 8701-2

Beschreibung
Description
IP gesteuerte schaltbare Stromverteilung mit Energiemessung
IP remote controlled power distribution unit with energy metering

mit den Bestimmungen der nachstehenden EU-Richtlinien übereinstimmen / are in accordance with the following European directives

2014/35/EU Niederspannungsrichtlinie / Low Voltage Directive (LVD)
2014/30/EU Elektromagnetische Verträglichkeit (EMV)
Electromagnetic Compatibility (EMC)
2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten (RoHS) / on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

und dass die nachstehenden harmonisierten Europäischen Normen zur Anwendung gelangt sind. / and comply with the following harmonised European standards.

EN 60950-1:2006/A2:2013 Einrichtungen der Informationstechnik - Sicherheit
Information technology equipment - Safety
EN 55022:2010/AC:2011 Einrichtungen der Informationstechnik - Funkstöreigenschaften
Information technology equipment - Radio disturbance characteristics
EN 55024:2010 Einrichtungen der Informationstechnik - Störfestigkeitseigenschaften
/ Information technology equipment - Immunity characteristics
EN 61000-3-2:2014 Elektromagnetische Verträglichkeit (EMV) Grenzwerte für Ober-schwingungsströme / Electromagnetic Compatibility (EMC) Limits for harmonic current emissions
EN 61000-3-3:2013 Elektromagnetische Verträglichkeit (EMV) Begrenzung von Span-nungsänderungen, Spannungsschwankungen und Flicker
Electromagnetic Compatibility (EMC) Limitation of voltage changes, voltage fluctuations and flicker
EN 50581:2012 Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe / Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Köln, 20.4.2016

Dr. Michael Gude, Geschäftsführer / General manager, CEO