**Technical Data**

<table>
<thead>
<tr>
<th>Type</th>
<th>2XD250</th>
<th>2XD400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated power output (sin.)</td>
<td>2 x 250 W</td>
<td>2 x 400 W</td>
</tr>
<tr>
<td>Voltage consumption (230 V AC)</td>
<td>2.8 A</td>
<td>4.5 A</td>
</tr>
<tr>
<td>Voltage consumption (24 V DC / Sinus continuous tone*)</td>
<td>25 A</td>
<td>40.5 A</td>
</tr>
<tr>
<td>Voltage consumption (24 V DC / Announcement / 1/3 load) *</td>
<td>8.75 A</td>
<td>13.9 A</td>
</tr>
<tr>
<td>Voltage consumption (24 V DC / Announcement / 1/8 load) *</td>
<td>3.6 A</td>
<td>5.6 A</td>
</tr>
<tr>
<td>Power consumption in standby mode (230 V) separated f. mains supply</td>
<td>approx. 0 VA</td>
<td>approx. 0 VA</td>
</tr>
<tr>
<td>Dissipation loss / 230 V AC (Idle)</td>
<td>25 W max.</td>
<td>30 W max.</td>
</tr>
<tr>
<td>Dissipation loss / 24 V DC (channels off)</td>
<td>3 W max.</td>
<td>3 W max.</td>
</tr>
<tr>
<td>Dissipation loss / 24 V DC (channels on)</td>
<td>10 W max.</td>
<td>12 W max.</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 16.5 kg</td>
<td>approx. 19.0 kg</td>
</tr>
</tbody>
</table>

*The voltage consumption is for both amplifier channels together when both outputs are wired with maximum speaker power (2 x 250 W or 2 x 400 W).

**General Technical Data**

- Nominal voltage: 230 V AC
- Nominal frequency: 50 ... 60 Hz, +10% / -5%
- Emergency power supply: 24 V DC
- Functional principle: Class D
- Transmission frequency band (-1 dB): 50 Hz ... 22 kHz
- Signal-to-noise ratio: > 90 dB, A - unweighted
- Harmonic distortion at full load / 1 kHz: < 0.03 % Channel separation > 42 dB
- Input impedance: > 20 kΩ, el. balanced
- Ambient temperature during operation: -5 °C ... +55 °C
- Relative humidity: 40% ... 93%, (no condensation)
- Housing color: gray, similar to RAL 7016
- Dimensions (B x H x T): 483 x 88 x 402 mm / 2 HU, 19"

**Order Information**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Order Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>580231</td>
<td>Power Amplifier 2 x 250 W / 100 V</td>
</tr>
<tr>
<td>580232</td>
<td>Power Amplifier 2 x 400 W / 100 V</td>
</tr>
<tr>
<td>583491</td>
<td>DOM-XV cable for amplifier audio inputs and remote control</td>
</tr>
<tr>
<td>583477.21</td>
<td>XV-DOM cable for amplifier and audio outputs (for 2 amplifiers)</td>
</tr>
</tbody>
</table>

Additional order information can be found in the "Voice Alarm Systems" product group catalog.
VARIODYN® D1 Power Amplifier
2 x 250 W, 2 x 400 W, Class D

- Power amplifier, 2-channel, Class D, 100 V outputs
- Two models available: 2 x 250 W / 2 x 400 W
- 80% efficiency factor
- 24 V DC emergency power supply
- Control and monitoring via DOM
- Integrated electronic protection against thermal overload and short-circuits during output
- EN 54-16-approved, CPD Number 0786-CPD-20997
- VdS-approved, VdS Number G210122

Application
The power amplifiers have two independent amplifier channels and 100 V toroidal core output transformers and are compatible with the VARIODYN® D1 System. The power amplifiers are controlled and monitored by the VARIODYN® D1 DOM4-8 (Digital Output Module) and DOM4-24 modules.

Connections
- Combined LF / control inputs
- Dual-channel 100 V output
- 230 V AC Power supply
- 24 V DC emergency power input

General indicators
- 230 V AC mains voltage
- CPU status
- Collective fault
- 24 V DC emergency power supply

Indicators per amplifier channel
- Operation
- Amplifier channel status
- Amplifier channel fault
- Clip display

LF / Control
Both LF inputs and the control input are connected to the VARIODYN® D1 DOM module via a cable (Part No. 583476.02).

100 V Outputs
The symmetrical ungrounded 100 V outputs are available at the connector labeled “OUTPUT 100 V”.

The two 100 V outputs are connected to the VARIODYN® D1 DOM module using a cable (Part No. 583476.02).

In the event that the included heat sink reaches a critical temperature, the relay load for this channel is disconnected and then reconnected upon reaching a safe temperature.

Power Connection, Battery Connection
A low power socket for the connection of the mains voltage as well as a mains fuse are located on the back of the amplifier. A mains cable is included with delivery. The power amplifier can only be operated via a three-wire system feed with a protective ground wire.

The 24 V emergency (uninterrupted) power supply (UPS) is connected to a corresponding 2-pin plug.