CONTROL PRO expands the range of functions of the ECOTAP® VPD® thereby adding even more versatility to the compact class for distribution transformers.

ECOTAP® VPD® enables regulation of distribution transformers using superior vacuum technology from Maschinenfabrik Reinhausen (MR). The system, which consists of a transformer and on-load tap-changer, is also very attractive to many operators in terms of cost. Customers whose requirements for voltage regulation and communication exceed the standard functions of ECOTAP® VPD® can expand the product's range of application using the modular CONTROL PRO expansion.

Additional functions

CONTROL PRO adds these functions to ECOTAP® VPD®:

- Remote communication in accordance with IEC 60870-4-104, IEC 61850, DNP3 and MODBUS TCP
- Advanced voltage regulation algorithms, such as performance-based voltage curves
- Parallel operation regulation
- Three-phase voltage and current measurement
- Storage of power quality measurements
### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>During operation</th>
<th>During storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>-25°C ... +70°C</td>
<td>-40°C ... +85°C</td>
</tr>
<tr>
<td>Voltage supply</td>
<td>100 - 240 VAC</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>approx. 470 x 130 x 110 mm (WxHxD)</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20</td>
<td></td>
</tr>
</tbody>
</table>

### Regulations/standards

- IEC 61010-1
- IEC 61010-2-030
- IEC 61000-6-2/-4
- IEC 60255-21-1/-2/-3 Class 1

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**MORE POWER, MORE VALUE.**

**Simple operation and state-of-the-art graphical display**
- Intuitive user interface with vector-based graphics for perfect scaling on all devices
- Web-based visualization dispenses with the need for additional software installations

**Maximum security and reliability**
- Routine testing of individual components and automated function tests
- Protection against unauthorized access thanks to role-based user authentication

**Uncomplicated commissioning – simple operation**
- Simple wiring
- Parameterization with little effort, can be updated at any time

**Ready for future requirements**
- Expands ECOTAP® VPD® with additional functions as needed
- Firmware and configuration updates are easily possible via Ethernet and/or a USB port

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THE POWER BEHIND POWER.