Switching nodes

**CMS-P**

Kiosk Switching Substation

Up to 24 kV

Reliable innovation. Personal solutions.
Description

**CMS-P** kiosk type switching substations are designed for cable and overhead networks utilized by utilities or industry. Due to small dimensions this substation is an excellent solution for places like housing estates or hard-to-reach localizations not available for heavy construction equipment.

Internal equipment

**CMS-P** substations are designed to contain Ormazabal’s SF₆ gas insulated MV switchgear up to 24 kV.

Safety

Substations are compliant with EU regulations regarding arc protection. It means that their structure ensures full safety for both servicemen and by-passers in case of fault arching.

These tests have been proved by independent research institutes according to IEC standard as well as requirements of German institutes: IPH and PEHLA. Substations have been certified by Warsaw located “Instytut Energetyki” and approved by “Instytut Techniki Budowlanej”.

Adaptation to the environment

**Colours and roofs**

In order to adjust substations appearance to the surrounding various types of colours and roofs are offered.

**Transport and installation**

Due to small dimensions **CMS-P** substations are transported to destination in one piece, ready for foundation.

For excavation and installation, please ask Ormazabal for the necessary technical documentation.

> It is the installer’s responsibility to calculate and create the external earthing network.

Technical details

**CMS-P examples**

**CMS-P 110 / 173**

**CMS-P 117 / 210**

<table>
<thead>
<tr>
<th><strong>CMS-P</strong></th>
<th>110/173</th>
<th>117/210</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width [mm]</strong></td>
<td>1100</td>
<td>1170</td>
</tr>
<tr>
<td><strong>Length [mm]</strong></td>
<td>1730</td>
<td>2100</td>
</tr>
<tr>
<td><strong>Depth [mm]</strong></td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td><strong>Height [mm]</strong></td>
<td>2415</td>
<td>2415</td>
</tr>
<tr>
<td><strong>Visible height [mm]</strong></td>
<td>1615</td>
<td>1615</td>
</tr>
<tr>
<td><strong>Total weight [t]</strong></td>
<td>3.2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Roof weight [t]</strong></td>
<td>0.7</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>MV configurations</strong></td>
<td>2LP</td>
<td>2LP</td>
</tr>
</tbody>
</table>

(†) According to gas insulated CGMCOSMOS cubicles up to 24 kV.
For other cubicle systems such as GA-GAE up to 24 kV, please consult Ormazabal.
Note: For other configurations, please consult Ormazabal.

Where:

L = Cubicle / Feeder Function  
P = Cubicle / Fuse Protection Function