

AOM Autonomous Operating Mechanism

HV Switching



The Autonomous Operating Mechanism

The Autonomous Operating Mechanism (AOM) allows for the remote operation of switching devices installed in isolated sites and/or where the low voltage network is not available.

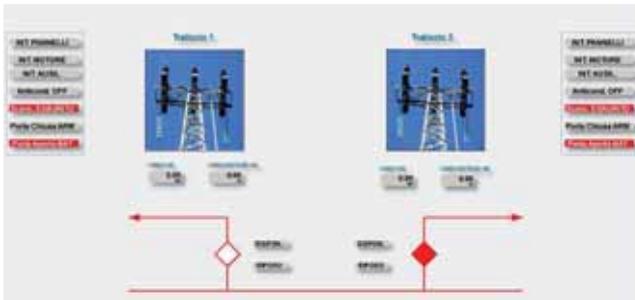
The main components of the AOM are the Power Supply Unit (PSU), the Operating Mechanism (OM) and the Remote Terminal Unit (RTU).

The PSU consists of a 24 Vdc battery system, charged by solar panels or by means of an autotransformer. If a low voltage network exists (AC or DC), it only transforms the available power supply to make it suitable for the OM and the RTU. The capacity and the autonomy of the battery system are tailored according to the customer's requests.

The OM is the standard COELME motor operating mechanism, which guarantees high performance and reliability. It is suitable to be mounted on different structures (pole, lattice type ...) and installation heights. Upon request, manual operation can be available at ground level, with no need to use special tools or ladders.

The RTU is installed inside the OM and permits to collect, elaborate and transmit information from the other components of the AOM (PSU and OM) to the control room. The communication module (a 3g router) could be integrated into or placed out of the RTU. A customer's router, with a dedicated firmware, can be used to transmit/receive orders to/from the control room.

The AOM can be integrated into an already available SCADA system.



Optional features

The AOM can be also connected to a camera and send pictures to the control room.

In this case, the AOM makes it possible to check the actual position of the switching device from the control room, before and after the operation.



Key features and advantages

- SCADA software available
- Complete remote data management and reprogramming
- Data transmission through:
 - GSM or satellite network
 - Direct connection with PC
- Monitoring of several parameters:
 - switching device status (open, closed)
 - local/remote selector status
 - battery voltage
 - OM internal temperature
 - ...
- Different communication protocols available
- Automatic sending of alarms to the control rooms, for example:
 - battery box open
 - OM door open
 - low battery level
- Heating circuit controlled by the RTU

