Application

When supplying energy into the public mains, additional voltage and frequency monitoring is required for generator sets > 30 kVA (Photovoltaic, combined heating and power generators, wind and hydro generator plants). The device can be used in plants with < 30 kVA, that have an isolator switch, as an alternative to an auto switching isolating device.

Solution

The voltage and frequency monitor RP 9800 of DOLD offers an optimised solution for mains monitoring when generating energy. To maintain the quality of the grid it is requested all over Europe by the energy companies.

Advantages to you

- Settings are adapted to the different European standards
- Simple adjustment with rotational switches
- All adjusted values are visible on one glance
- Manipulation is avoided by a sealable transparent cover
- Several LEDs show the status of the plant
- Voltage and frequency are indicated by separate output relays
- Fast reaction time t < 100 ms (typ. 75 ms)
- Required trend monitoring by calculating a 10 minute mean value
- Adjustable time delay
Voltage and frequency monitor RP 9800

**Technical features**
- Voltage and frequency monitoring for generator sets > 30 kVA connected to the public grid according VDEW
- For 3-phase systems with neutral
- Also for special voltages
- Disconnection on rise and drop of voltage
- Disconnection on rise and drop of frequency
- Disconnection when 10 min mean value differs to nominal voltage
- Frequency and voltage are indicated by separate output relays
- Allows connection or re-connection after adjustable time delay
- Protected against manipulation by sealable cover over setting switches
- Clear and directly visible settings according to directive
- High accuracy
- Dimensions in mm 70 x 90 x 71 (W x H x D)

**Ordering data**
Standard types:
- RP 9800.12 3/N AC 400/230 V
  Article number: 0062263
- RP 9800.12 3/N AC 315/182 V
  Article number: 0063103
- RP 9800.12/500 3/N AC 400/230 V
  Overfrequency adjustable from 50.2 ... 51.5 Hz in steps of 0.1 Hz
  Article number: 0064515

**Application**
Monitoring of the parameters required by the directive is guaranteed by RP 9800. Avoiding mains interference by the coupling device is only one of numerous applications.

More applications are:
- Parallel connected single phase inverters: On phase failure the other 2 separate supplied phases are disconnected.
- Supply by one or more 3-phase inverters: On phase failure in one path or on differences to the required grid quality the RP 9800 initiates disconnection.

More information

[Start]

www.dold.com