

MainsPro

MAINS DECOUPLING RELAY



Are you generating power in parallel to the mains?

You will need 'loss of mains' protection.

Essential to avoid supplying your electricity into an islanded grid, leading to possible equipment damage or safety issues.

The solution is MainsPro, the new microprocessor based mains decoupling relay from ComAp, which offers unequalled mains protection for a wide range of mains connected applications. These include generator sets and renewable energy sources such as photovoltaic plants, wind turbine and other forms of micro cogeneration.

With MainsPro, no special knowledge is needed for installation and no additional units are required, making the ideal solution for both untrained personnel and professionals alike. The unit is designed to fully comply with Utilities' connexion requirements and statutory codes, offering a high level of protection and safety when working in parallel to the mains.

Reduces your costs for installation and commissioning workload expenses.

Efficient installation:

- ▶ Flexible supply voltage and measurement range
- ▶ Suitable for standard DIN rail installation or panel-mount (optional)
- ▶ Friendly interface with easy setting of values
- ▶ Compact design allows installation into restricted spaces
- ▶ Simple wiring with detachable connectors
- ▶ Increased efficiency of commissioning tests
- ▶ Integrated mechanical lock to secure your setting



ComAp is a member of AMPS
(The Association of Manufacturers
of Power generating Systems).



ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.

ANSI**Protective functionality****27**

Undervoltage

59

Overvoltage

81H

Overfrequency

81L

Underfrequency

78

Vector shift

81R

Rate of change of frequency + ROCOF filter

47

Voltage asymmetry

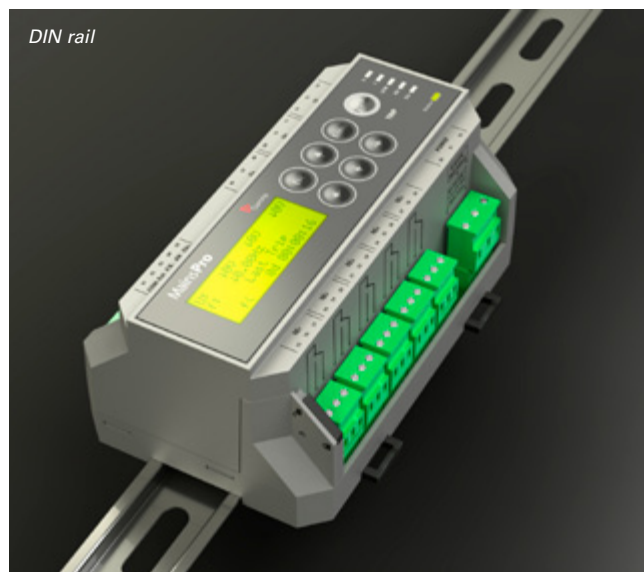
Positive sequence undervoltage

Negative sequence overvoltage

Phase sequence supervision

Binary switches: Ext. trip, Fault reset, Activate/
de-activate, Alternative parameters

10 minute floating average overvoltage

**Technical information:**

- ▶ **True RMS** measurement for increased accuracy, reliable evaluation of failures
- ▶ **Vector Shift** and **Rate of change of frequency (ROCOF)** protections available in one unit to choose the best fit to secure your site
- ▶ Symmetrical components for better detection of **voltage asymmetry** failures
- ▶ **Two stage settings** of voltage and frequency protections to cover short term as well as long term disturbances with appropriate priority
- ▶ Free assignment of **5 relay outputs** allows wide range of signaling and trip methods
- ▶ **4 binary switches** to remotely change operation of the unit
- ▶ Adjustable time delay of **Automatic fault reset** to avoid necessity of on-site personnel
- ▶ **Universal power supply** 8-40 VDC, 85-265 VAC, 110-370 VDC
- ▶ Selectable voltage range 120/230/400 VAC with over-range to 156/290/520 VAC makes the unit **independent on application**
- ▶ Supports **3-phase and 1-phase** applications
- ▶ **Last trip recorded** in order to provide the evidence of cause of trip



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Customer satisfaction is our mission. We continuously develop the best people to succeed in our mission.