AUTOMATIC DISCONNECTION DEVICE

**Norm requirement for power generation plants > 30kVA:**

- Voltage drop protection
- Over voltage protection
- Monitoring of voltage quality (10 minutes average value)
- Frequency drop protection
- Frequency rise protection
- Detection of off-grid operation
- Failsafe mains grid monitoring

**Why use?**

Decentralized small power plants must be separated from the electrical grid in case of grid disconnection, grid failure or disconnection by utility or a protection device within a few milliseconds. So humans and machines can effectively be protected.

- Improved grid integration of decentralized energy power plants
- Personal protection in case of grid disconnection
- Grid protection by grid-supporting functionalities (Disconnection outside tolerances)
- Plant protection by monitoring upon inadmissible parameters

**Power generation plants at low voltage grid**

**Products**

- G4PM400VDF-FA02 50Hz VDE according to DIN VDE V 0126-1-1
- G4PM400VDF-FA02 50Hz OVE (Austria only) according to ÖVE/ÖNORM E 8001-4-712
- G4PF33-1 according to VDE-AR-N 4105

**Compliant with VDE-AR-N 4105**
Compliance with application guideline  
**VDE-AR-N 4105:**

- Defined threshold for voltage and frequency monitoring  
- Compliance with maximum disconnection time of 200ms  
- Error memory and announcement of the last five error messages with relative time stamp  
- Precise measurement and evaluation of 10 minute average value  
- Compliance with minimum connection time of 60 seconds  
- Passive failsafe mains grid monitoring  
- Single failsafe by two-channel measurement

⚠️ **Deadlines Germany**

**VDE-AR-N 4105**
1. January 2012:  
Photovoltaic plants > 30kVA  
1. July 2012:  
Other decentralized power plants > 30kVA  
(e.g. wind-, water, thermal power, biomass stations,...)

 vibrator

Individual error at the control unit must not lead to loss of safety function. Therefore all protective functions contained in the device are implemented in a way that occurrence of a single error is detected by a redundant unit. As a result, the plant will be disconnected in that case.
TELE stands for high quality research and development, a modern production location in Austria and a very strong team, which launches new products. We have specialised on our core competences in the past decades - time relays and automation components. Through passion and professionalism, modern monitoring and control technology emerged in accordance with international standards for worldwide use at the highest quality levels. Today we are the Austrian market leader in the area of high quality monitoring and control technology for machines, plants and buildings with the world's largest assortment of time and monitoring relays.

As pioneers and progressive thinkers we are offering intelligent solutions for the monitoring of plants, buildings or machines to keep machinery and equipment running. Our mission is sustainable power production and power use, which will address the social change of the future on a long term basis.

That already reflects in TELE's new products, likewise, as daily lived at handling our resources. More than 100 employees try not only to meet the day to day requirements of our customers but try to exceed them and have been doing this since 1963.

- Worldwide largest portfolio regarding time and monitoring relays
- Market leader at monitoring and control technology in Austria
- Monitoring devices for physical values like current, voltage, temperature, level, etc.
- Comprehensive technical know-how through decades of experience
- Technological edge by sophisticated development
- Worldwide sales network

100 per cent of our core products are produced in Austria. Our core competences are research and development as well as production at our main location in Vienna with our team of highly qualified employees. Our own sales team in Austria and Germany as well as trade partners in over 50 countries form our global sales network.

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