

iGridControl-Box 18560

Abstract

The iGridControl-Box is serving monitoring and control of heterogeneous power generation plants. Different generation plants like Combined Heat and Power (CHP), Wind Turbine Generator (WTG) and PV-plants can be controlled single or common at the network connection point (NAP).

Besides of power reduction and reactive power control, all guidelines for junction to remote control of the power grid system operator respectively of the "Direktvermarkter" will be implemented.



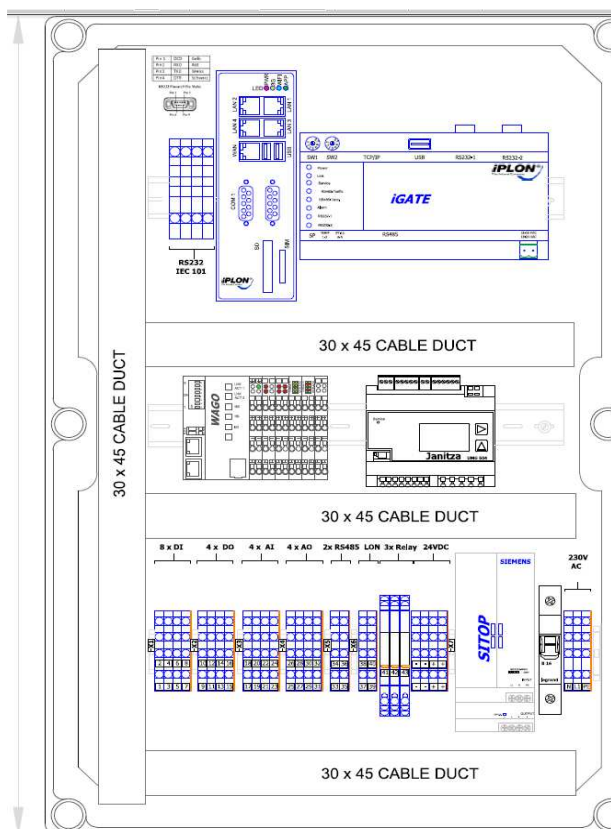
Overview

- ◆ Implementation of the specifications of power grid system operator and the "Direktvermarkter" with prioritization accordingly
- ◆ Integration into operational management
- ◆ Optional energy management
 - E-Mobility
 - Load Management
 - control power
 - energy storage
- ◆ Grid-Stability
 - Control of RONTs
 - Measurement of power quality
 - reactive power control (Q (U), cosphi, ...)
- ◆ integration of all common PV inverters and CHP-Manufacturer
- ◆ Use of standardized interfaces
- ◆ Smart home / industrial applications
- ◆ Implementation of customer-specific requirements through decentralized module structure
- ◆ E-Mail, SMS- notification
- ◆ Android- / IOS-App
- ◆ Flexible for future requirements
- ◆ Control via decentralized timetable



Interfaces

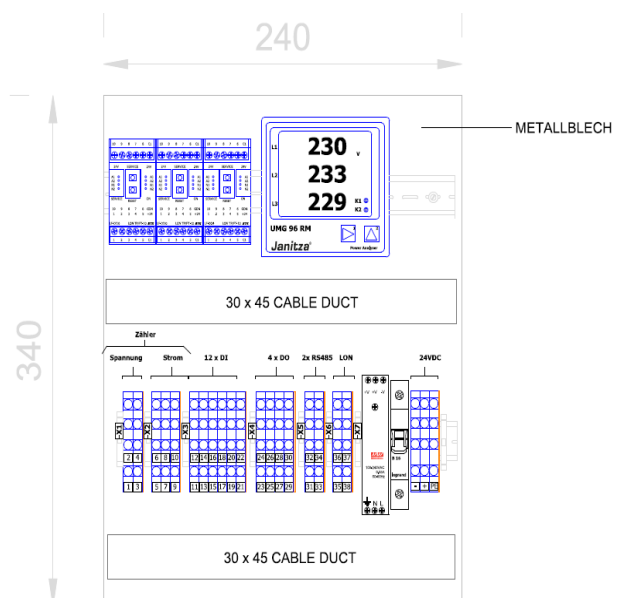
- ◆ interface IEC60870-5-104 towards control room of power grid system operator and / or “Direktvermarkter”
- ◆ Interface IEC60870-5-101 for protocol converter of power grid system operator
- ◆ Interface IEC60870-5-103 resp. Modbus RTU/TCP for protection device
- ◆ Voltage current measurement at NAP through voltage transformer
- ◆ Analog and digital IOs for input of additional data points
- ◆ Control of the circuit breaker of the transformer station resp. of the generating plants for secure net separation
- ◆ Connection of meteorological sensors via Modbus RTU or analog entrance
- ◆ Operating temperature -20° to + 55°
- ◆ Integrated UPS optional



Hints

We guarantee customized planning and commissioning in time through well-trained team.

Technical clarification with net operator, Direktvermarkter and substation-manufacturer as well as manufacturer of generation plants control.



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