

# DECLARATION

## Declaration of Conformity



**Applicant:** ComAp a.s.  
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**Product type:** Controller for Synchronous CHP

Model:	Software version:		Version Grid-Code Modul:
	InteliSys Gas	IM2GSC 1.2.0	V1.2
	InteliSys GSC-C		
	InteliGen GSC-C		
	InteliGen GSC		

**Rating:** Supply voltage: 8...36V<sub>dc</sub>  
Measuring AC voltage range: 0...480V<sub>ac, ph-ph</sub>  
Output Voltage: -10...10V (analogue output)

A representative test sample of above stated model successfully passed partial testing according to (see test overview in annex).

**Standard:** VDE-AR-N 4105:2018-11 (tested according to DIN VDE V 0124-100 (VDE V 0124-100):2020-06)

**Report no:** 21PP124-02\_0

**Certificate no:** 21-273-00

**Date of issue:** 2021-09-01

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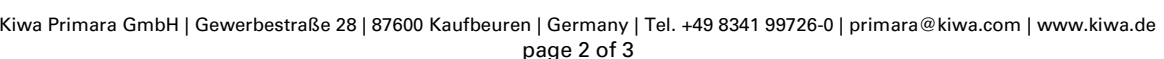
Jürgen Seegger



The EZE controllers IntelliSys Gas, IntelliSys GSC-C, IntelliGen GSC-C, IntelliGen GSC are controllers for genset applications manufactured by ComAp, a.s..

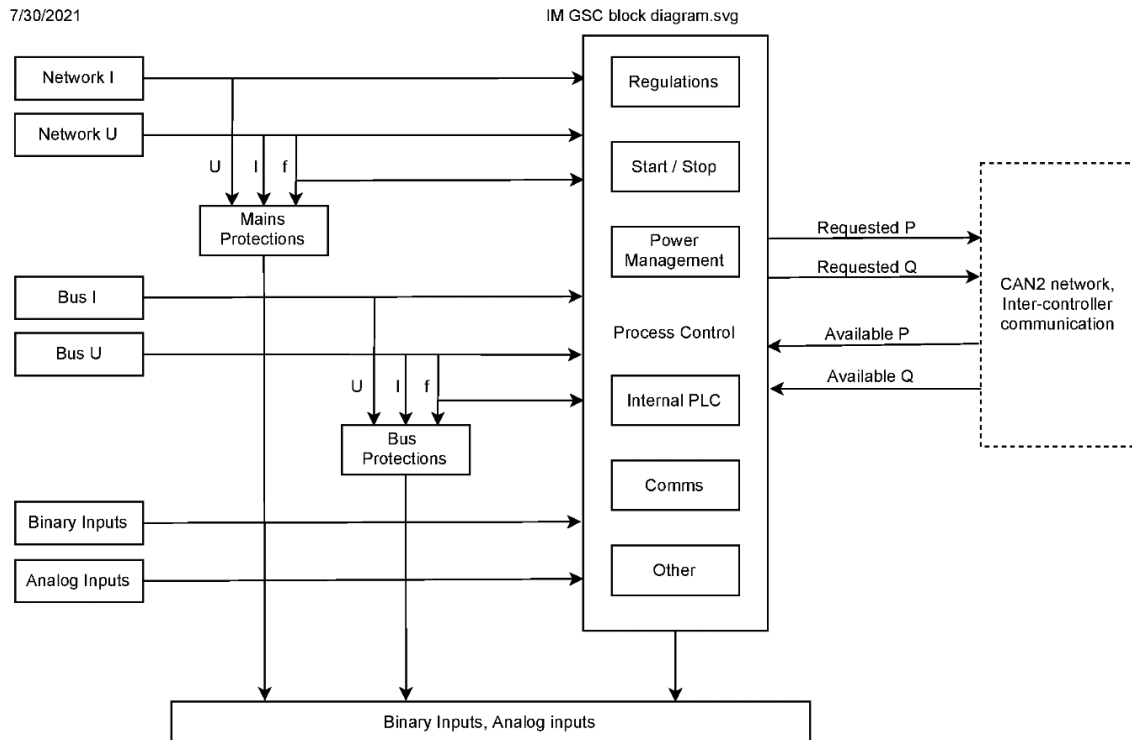
- Genset operation/control (start, stop operation)
- Genset control (voltage control, active and reactive power control,  $\cos \phi$  control)
- Network voltage monitoring and generator shutdown if network values are outside adjusted limits (voltage and frequency monitoring)

A typical application of a control device is shown in the following figure.





## Block diagram



## Test overview

The controller was tested with a "starter kit" simulation setup, in which the various feed-back signals were implemented via switches and potentiometers in order to simulate realistic operation. Only the manipulated variables were measured and not their controlled variables. This means that the control loops for active and reactive power were not closed (open loop).

DIN VDE V 0124-100 (VDE V 0124-100):2020-06		
Clause	Test	Result
5.4.3	Active power reduction by setpoint	<b>P</b>
5.4.4	Active power injection by over frequency P(f)	<b>P</b>
5.4.6	Active power injection by under frequency P(f)	<b>P</b>
5.4.8.2	Reactive power/cos $\phi$ parameter precision	<b>P</b>
5.4.8.3	Characteristic curve cos $\phi$ (P)	<b>P</b>
5.4.8.4	Characteristic curve Q(U)	<b>P</b>
5.8	Behavior during grid fault	<b>P</b>