

Marketing Information

ALL-IN-ONE.GAS

Generator & CHP Control System

ALL-IN-ONE

MOTORTECH GENERATOR & CHP CONTROL SYSTEM

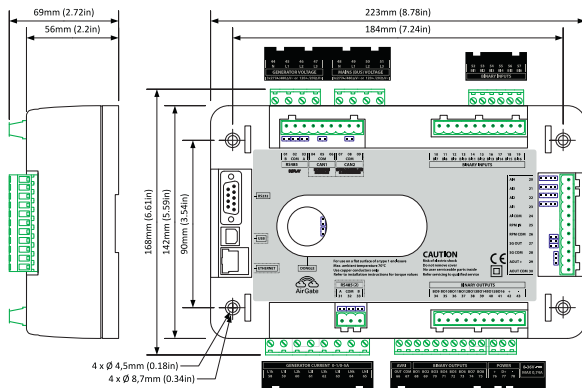
Features

- State-of-the-art control system for CHP (Cogeneration) and power generation applications
- More powerful hardware – more memory capacity
- Nearly double amount of internal PLC functionalities (compared to ALL-IN-ONE.NTC)
- Support of all ALL-IN-ONE.Vision displays
- Grid code compliance according to
 - VDE-AR-N 4105
 - VDE-AR-N 4110
 - BDEW directives
 United Kingdom G99 (in combination with specific module*)

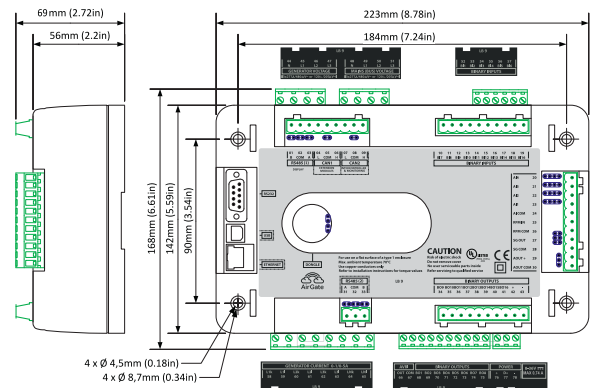


Ready for VDE-AR-N 4105, VDE-AR-N 4110 und G99* (GB)

ALL-IN-ONE.GAS



ALL-IN-ONE.NTC



* In combination with mains decoupling relay P/N 63.50.139 – Type tested (TT) compliance according ENA EREC G99

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DISTRIBUTION

Customers / others	Yes
Representatives and Sales Partners	Yes
OEM partners	Yes
MOTORTECH subsidiaries	Yes

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Comparison ALL-IN-ONE.GAS / ALL-IN-ONE.NTC



Features	ALL-IN-ONE.GAS	ALL-IN-ONE.NTC
Integrated Soft PLC	<ul style="list-style-type: none"> ■ PLC functions: <ul style="list-style-type: none"> – Up to 32 PID blocks, 16 with binary outputs, 16 with analog outputs – Up to 256 AND/OR functional blocks – Up to 48 delay PLC blocks – Up to 32 ana switch PLC blocks – Up to 80 comparator PLC blocks ■ Up to 256 PLC binary outputs can be used ■ Up to 96 PLC analog outputs can be used ■ Up to 128 PLC setpoints can be used 	<ul style="list-style-type: none"> ■ PLC functions: <ul style="list-style-type: none"> – Up to 22 PID blocks, 16 with binary outputs, 6 with analog outputs – Up to 100 AND/OR functional blocks – Up to 24 delay PLC blocks – Up to 16 ana switch PLC blocks – Up to 40 comparator PLC blocks ■ Up to 64 PLC setpoints can be used
ECU support	<ul style="list-style-type: none"> ■ Supports up to 8 ECU blocks <ul style="list-style-type: none"> – 128 analog inputs via J1939 – 128 binary inputs via J1939 – 16 analog outputs via J1939 – 64 binary outputs via J1939 	<ul style="list-style-type: none"> ■ Supports up to 3 ECU blocks <ul style="list-style-type: none"> – 48 analog inputs via J1939 – 48 binary inputs via J1939 – 12 analog outputs via J1939 – 48 binary outputs via J1939
Support of Start-Up Synchronization (SUS)	<ul style="list-style-type: none"> ■ Dedicated for installations where multiple generator sets shall be synced to common bus in very short time ■ Dedicated for applications where e.g. soft magnetizing of a transformer is needed 	<ul style="list-style-type: none"> ■ No support
Communication plug-in modules	<ul style="list-style-type: none"> ■ Supports the connection of up to 2 I-CB modules, means simultaneous use of e.g. <ul style="list-style-type: none"> – I-CB Modbus, acting as a Modbus master – I-CB for e.g. MWM® engines with TEM control system 	<ul style="list-style-type: none"> ■ Supports the connection of 1 I-CB module
Number of supported modules (new I/O modules)	<ul style="list-style-type: none"> ■ Up to 15 AIN8 or AIN8TC modules ■ Up to 15 IO8/8 modules 	<ul style="list-style-type: none"> ■ Up to 10 AIN8 or AIN8TC modules ■ Up to 12 IO8/8 modules
Support of the new AIO9/1 module	<ul style="list-style-type: none"> ■ 4 analog inputs for battery measurement up to 60 V ■ 4 analog inputs for thermocouple measurements ■ 1 analog output (PWM, mA, V) 	<ul style="list-style-type: none"> ■ 4 analog inputs for battery measurement up to 60 V ■ 4 analog inputs for thermocouple measurements ■ 1 analog output (PWM, mA, V)
Air/fuel ratio (AFR) control algorithm	<ul style="list-style-type: none"> ■ Improved behavior in island operation – faster reaction of the air/gas mixer thanks to predefined fixed positions ■ Adjustable PID speed – for stoichiometric applications with variable load ■ 2 independent AFR mappings for 2 engine banks on V-engines or 2 different fuel types (e.g. biogas or natural gas) 	<ul style="list-style-type: none"> ■ Standard behavior ■ Non adjustable PID speed ■ 1 AFR mapping
Languages	Minimum of 6 languages	English or English +1 (depending on size of conguration)

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