



**InteliNano Plus**



Order code: IN-NT PLUS

# Datasheet

## Gen-set controller for prime power or stand-by applications

### Product description

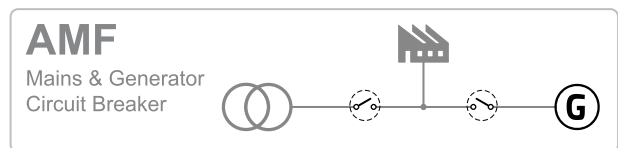
- > Stand-by and prime power application in one model
- > Direct communication with EFI engines

### Key features

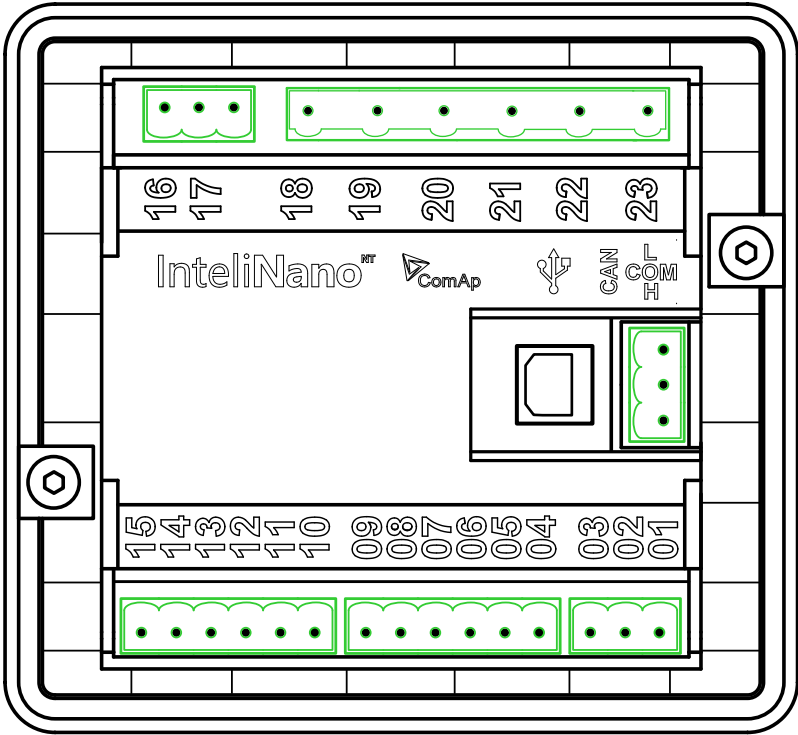
- > 1/3 Phase generator voltage measurement (3/3 phase when used as MRS controller)
- > 1 Phase generator current measurement
- > 3 Phase mains voltage measurement
- > Various generator and engine protections
- > Automatic or manual MCB and GCB control
- > All setpoints and I/O's configurable via front panel
- > Power measure and energy counter
- > Magnetic pick up input
- > Configurable from the front face
- > Free configuration software (NanoEdit) & USB power-up
- > Emergency stop internally connected to Starter and Fuel Solenoid outputs
- > Up 6 inputs / Up 6 outputs
- > ECE engine support over onboard CAN por
- > Battery voltage, Service time and Running hours indicationt
- > Automatic recharge of battery

- > Autodetection of connection type and voltage
- > Zero power consumption mode
- > Symbolic interface
- > Event log of 15 records
- > Light tower support
- > Standard cut-out dimension 96x96
- > Outside dimension 110x100
- > IP 65 (when optional gasket is used)

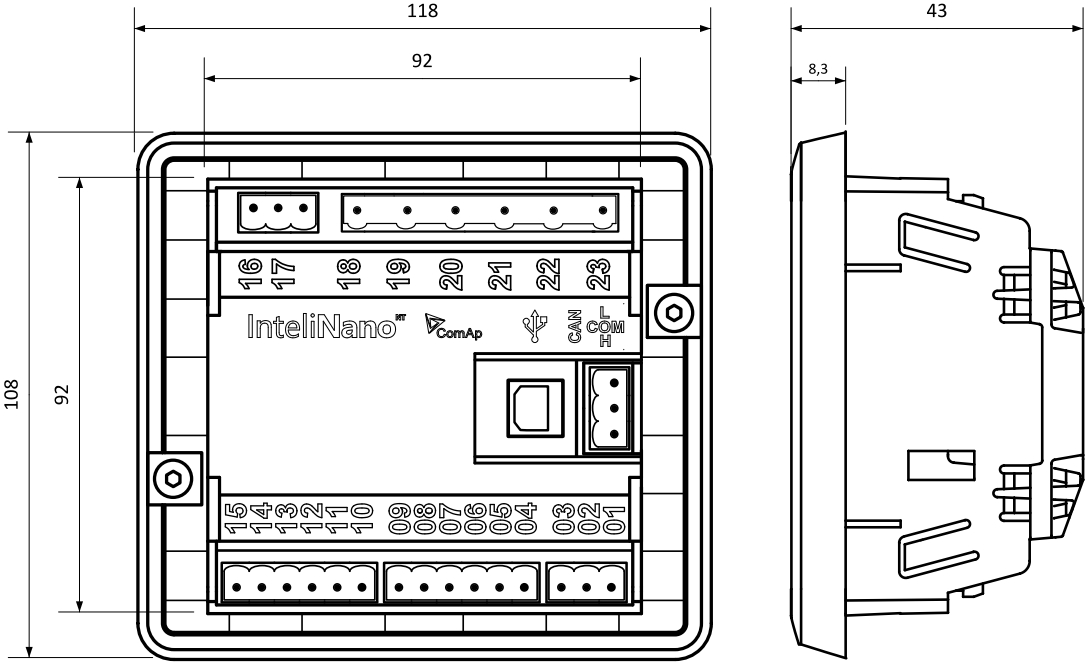
### Application overview



# Dimensions, terminals and mounting



**Note:** All dimensions are in mm.



**Note:** The controller is to be mounted into panel doors as a standalone unit using provided fixing clips. The requested cut-out size is 94 × 94 mm. Use the screw holders delivered with the controller to fix the controller into the door.

## Technical data

### Power supply

Power supply range	6-36 V DC
Power supply drop-out immunity	100 ms
Power consumption	35 – 295 mA
Zero Power Mode consumption	52 – 344 $\mu$ A

### Dimensions

Enclosure	118 × 108 × 40 mm
Cutout	96 × 96 mm

### Operating conditions

Operating temperature	-20 °C to +70 °C
Operating humidity	95 % w/o condensation (IEC/EN 60068-2-30)
Protection degree (front panel)	IP65 with GASKET 4×405 only IP50 without gasket
Storage temperature	-30 °C to +80 °C

### Binary inputs (up to 6)

Input resistance	1.5 k $\Omega$
Closed contact voltage	<2 V
Open contact voltage	>3.5 V

### Binary outputs (up to 6)

Low current outputs (4)	500 mA
High current output (2)	6 A (long term) / 10 A (short term)
Total output current	10 A (long term) / 16 A (short term)

### Analog inputs (up to 3)

Number of analog inputs	up to 3
Galvanic insulation	Not insulated
Electrical range	0–2500 k $\Omega$
Resolution	0.1 $\Omega$
Precision	2 % $\pm$ 3 $\Omega$

### Charging alternator preexcitation circuit

Excitation current	100 mA
Charging fail threshold	80 %

### Generator/Mains measurements

Measurement input	1ph gen. voltage, 1ph gen. current, 3ph mains voltage
Measurement type	True RMS
Voltage range	480 V Ph-Ph (277 V Ph-N)
Max. measured voltage	340 V Ph-N
Voltage accuracy	1 %
Frequency range	40-70 Hz
Frequency accuracy	1 %
Current range	0-5 A
Current accuracy	2% True RMS

## Functions and protections


The described product fully supports the following functions and protections as defined by ANSI (American National Standards Institute):

Description	ANSI code	Description	ANSI code
Overvoltage	59	Under frequency	81L
Undervoltage	27	Over current**	50
Voltage asymmetry and Phase rotation*	47	Temperature	49T
Over frequency	81H	Gas (fuel) level	71

\*Phase rotation only

\*\*Short circuit only

## Certificates and standards

<ul style="list-style-type: none"><li>&gt; EN 61000-6-2EN</li><li>&gt; 61000-6-4</li><li>&gt; EN 60068-2-1 (-20 °C/16 h for std version)</li><li>&gt; EN 60068-2-2 (70 °C/16 h)</li><li>&gt; EN 60068-2-6 (2–25 Hz / ±1.6 mm; 25–100 Hz / 4.0 g)</li><li>&gt; EN 60068-2-27 (A=500 m/s<sup>2</sup>; T=6 ms)</li><li>&gt; EN 60068-2-30</li><li>&gt; EN 60529 (front panel IP65, back side IP20)</li></ul>	
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