InteliLite^{NT} AMF 9

SINGLE SET GEN-SET CONTROLLER

Description

The InteliLite^{NT} AMF 9 is integrated controller for gen-sets operating in single standby mode.

The controller meets all requirements for Auto Mains Failure (AMF) applications including remote communication and internet control, user configuration and complete gen-set monitoring and protection.

InteliLite^{NT} AMF 9 is easy to use with a simple intuitive user interface and graphic display. Unit is designed for quick and cost saving commissioning and bring seamless integration with the latest breed of EFI diesel engines from all major manufacturers. This offers a higher level of functionality with users able to display a comprehensive range of values from the EFI engine on standard analog gauges and true RMS measurement of electric values.

Benefits

▷ Less wiring and components
▷ Less engineering and programming
▷ Cost saving commissioning
▷ Remote monitoring reduced call-out costs of service engineers
▷ History 100+ records based on running hours
▷ Hybrid binary inputs and outputs module – simple way of extension the unit performance
▷ SMS on alarm/event
▷ Direct communication with EFI engines
▷ Perfect price/performance ratio

InteliLite^{NT} AMF 9 supports J1939 for all major brands:

- Caterpillar
- Cummins
- Detroit Diesel
- Deutz
- GM
- Isuzu
- Iveco
- John Deere
- MAN
- MTU
- Perkins
- Scania
- Sisu
- VM Motori
- Volvo Penta and others

ComAp is a member of AMPS (The Association of Manufacturers of Power generating Systems).

ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.

Features

▷ **3 phase AMF function**
  • Over/Under frequency
  • Over/Under voltage

▷ **3 phase generator protections**
  • Over/Under frequency
  • Over/Under voltage
  • Over current

▷ **True RMS Voltage measurement**
  • 3 phase generator voltages:
    • Phase to neutral
      L1 – N, L2 – N, L3 – N
    • Phase to phase
      L1 – L2, L2 – L3, L3 – L1
  • 3 phase mains voltages
  • Voltage range 277 V p-n, 480 V p-p
  • Maximal measured voltage 300 V p-n

▷ **True RMS current measurements**
  • 3 generator phase currents
  • Current range 5 A
  • Maximal measured current 10 A
  • Ready for generators with
    3 ph 4 wires / 3 ph 3 wires
    / Split ph / Mono ph

▷ **Event and performance log**
  • Gen-set text alarm log
  • Engine hours history log
  • ECU text alarm log
  • Test Run scheduler

▷ **Power measurements**
  • Apparent power per phase
  • Total apparent power

▷ **User interface**
  • Graphic 128 × 64 pixels display
  • 2 languages, user changeable from PC
  • Setpoints adjustable via
    controller buttons or PC
  • Buttons with mechanical feedback

▷ **Inputs and outputs**
  • 3 fully configurable analog inputs
  • 4 binary inputs; 6 binary outputs
  • D+ preexcitation terminal
  • Optional 8 hybrid binary inputs/outputs
  • Optional 8 analog gauge drive outputs,
    compatible with VDO, Datcon gauges

▷ **EFI engine support**
  • Cummins Modbus
  • Engine specific J1939 for all major
    manufacturers (see table on page 1)
  • Diagnostic messages in plain text

▷ **Engine protections**
  • Oil pressure protection
  • Coolant temperature
  • Fuel level

▷ **Active calls**
  • 1 channel
  • SMS alarm
  • Event SMS

▷ **Miscellaneous features**
  • Operation mode
    – AMF/MRS application switch
  • Maintenance – service time counter
  • Engine hours counter

▷ **Communication interfaces**
  • Optional RS232, RS485
    (including Modem support)
    or USB plug-in interface
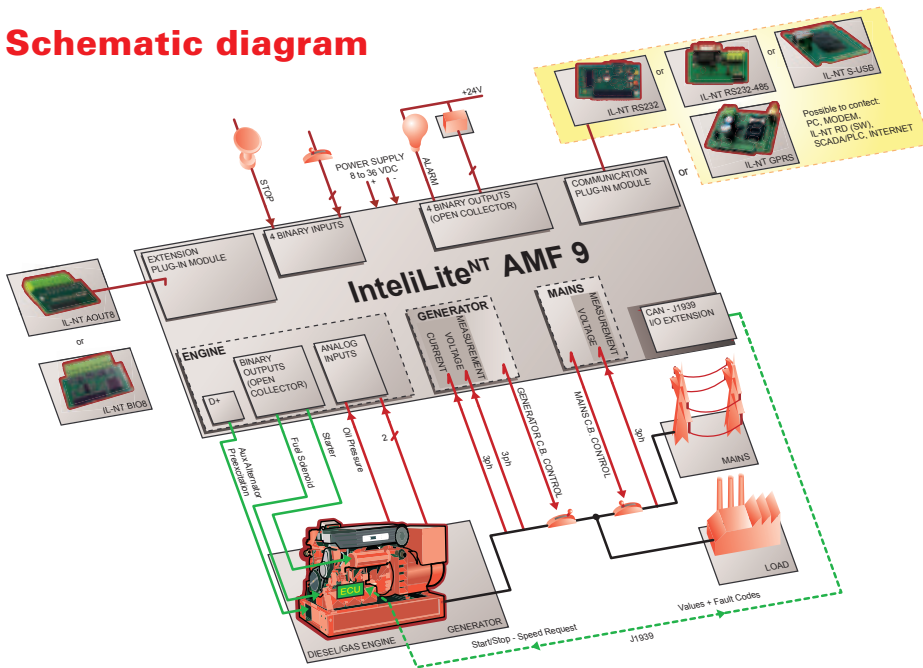 • Optional GSM modem via IL-NT GPRS

▷ **Mechanical
   and operation parameters**
  • Unit dimension 120 × 180 mm
  • Sealed front face rated for IP65
  • Hard plexiglass LCD cover
  • Operation temperature:
    • -20 °C to +70 °C standard version
    • -40 °C to +70 °C low temperature ver.
  • Power supply voltage 8–36 V
  • Voltage drops shorter than
    50 ms do not affect operation

ANSI code	Protection
59	Overvoltage
27	Undervoltage
81H	Overfrequency
81L	Underfrequency
50+51	Overcurrent*
47	Phase rotation**
71	Gas (Fuel) level

*Shortcurrent only   /   ** Fixed setting*

Schematic diagram

Accessories and PC tools

▷ **IL-NT AOUT8** – Analog Outputs
  for PWM Gauges Module
▷ **IL-NT BIO8** – Binary Input/
  Output (PWM) Module
▷ **IL-NT RD (SW)** – Remote Display
  Software for InteliLite^NT Controllers
▷ **IG-IB** – InternetBridge support
▷ **IL-NT GPRS** – GSM Modem/
  Wireless Internet Module
▷ **IL-NT RS232** – RS232 Extension Board
▷ **IL-NT RS232-485** – Dual
  Port Extension Board
▷ **IL-NT S-USB** – Service USB Module
▷ **InteliMonitor** – PC Monitoring Tool
▷ **WinScope** – Special Graphical
  Controllers' Monitoring Software
▷ **LiteEdit** – PC Configuration
  and Monitoring Tool

MANUFACTURER:

ComAp, spol. s r. o.

Czech Republic
Phone: + 420 246 012 111
Fax: + 420 266 316 647
E-mail: info@comap.cz
Internet: www.comap.cz

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