

InteliLite^{NT} MRS19



SINGLE SET GEN-SET CONTROLLER



Description

InteliLite^{NT} MRS19 controller is an integrated controller for gen-sets operating in manual or remote start mode. Based on the field proven InteliLite architecture, the new controller fulfils every requirement needed for MRS application – including remote control, user configuration and complete gen-set monitoring and protection.

Like all ComAp products, InteliLite features a powerful graphic display providing userfriendly information in an easy to understand format. Real time clock and event history log are priceless when it comes to troubleshooting. Instrumentation of internal values on VDO type analog gauges makes use easy even for untrained personnel.

The new design brings seamless integration with the latest breed of EFI diesel engines from all major manufacturers. It can communicate via standard and proprietary CAN J1939 communication protocols to a wide range of EFI engines, which include Caterpillar, Cummins, Deutz, Detroit Diesel, GM, Iveco, John Deere, Perkins, Scania, Sisu, Volvo Penta and others.

Remote control and monitoring is possible via analog/GSM Modem, Modbus or Internet.

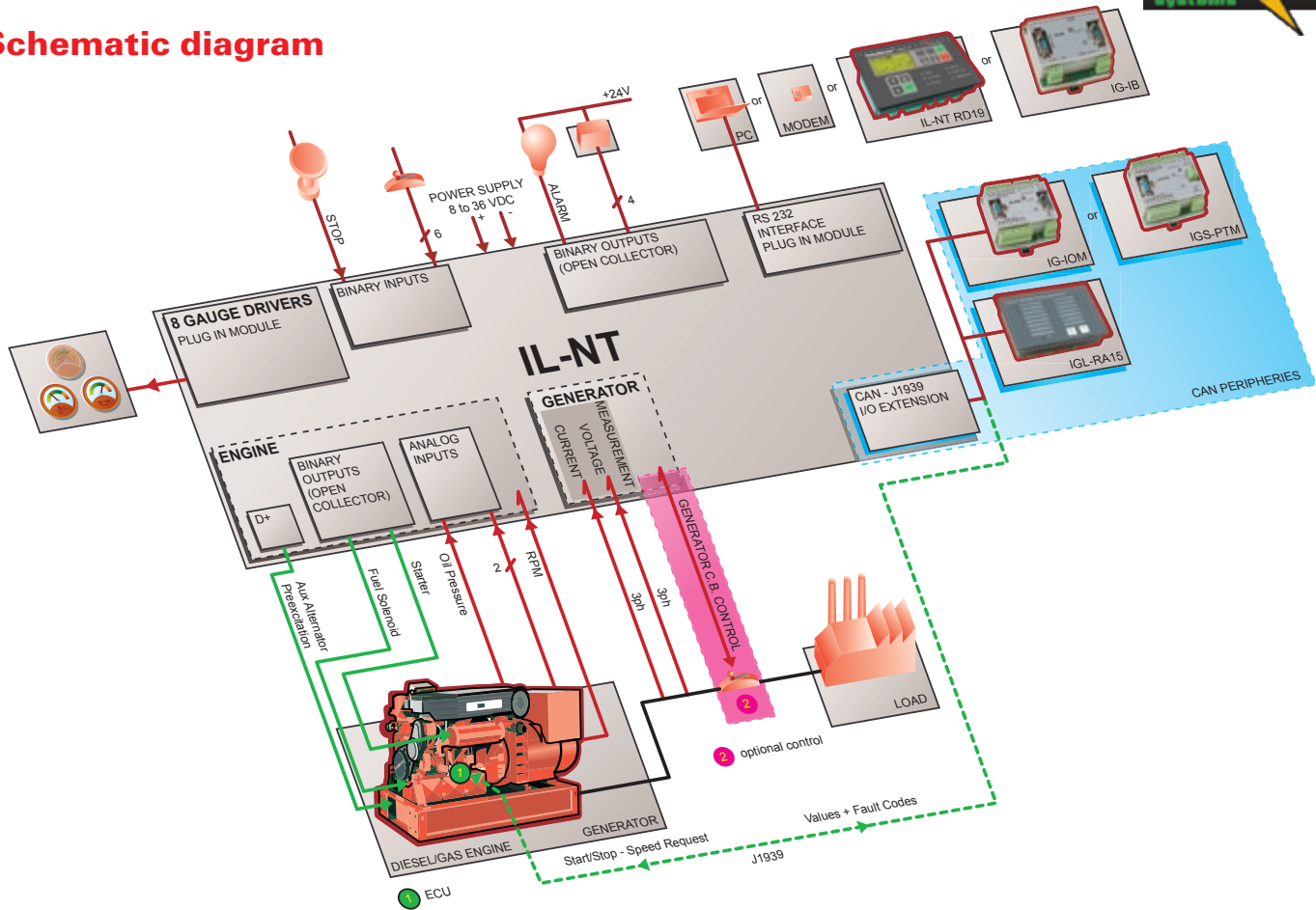
The controller comes with LiteEdit PC software allowing the user to freely configure the inputs and outputs to suit individual requirements.

Benefits

- ▶ Integrated solution – less wiring and components
- ▶ Less engineering and programming
- ▶ History log – easy troubleshooting and warranty claim handling
- ▶ Remote monitoring reduced call-out costs of service engineers
- ▶ Analog gauge (VDO, Datcon) outputs – operator friendly
- ▶ Perfect price/performance ratio
- ▶ UL/ULC recognized
- ▶ NFPA110 compliant



Schematic diagram



Features

3 phase generator protections

- Over/Under frequency
- Over/Under voltage
- Current/Voltage asymmetry
- Overcurrent/Overload

True RMS Voltage measurement

- 3 phase generator voltages
- Voltage range 277 V p-n, 480 V p-p
- Maximal measured voltage 340 V p-p
- PT ratio range 0.1-500

True RMS current measurements

- 3 generator phase currents
- Current range 5 A
- Maximal measured current 10 A
- CT ratio range 1-5000

Power measurements

- Act / React Power and Power
- Factor per phase
- Active and Reactive Energy counter

Event and performance log + RTC

- Event based history with 119 events
- Reason, Data and Time + all important values are stored
- Battery backed-up RTC
- Test Run scheduler

User interface

- Graphic 128 × 64 pixels display
- Multiple language capability
- Setpoints adjustable via keyboard or PC
- Buttons with mechanical feedback

Inputs and outputs

- 3 analog inputs (0-20 mA or Resistive – jumper selectable)
- 7 Binary inputs
- 7 Binary outputs
- Magnetic pick-up input
- D+ preexcitation terminal
- Optional 8 analog gauge drive outputs, compatible with VDO, Datcon gauges

EFI engine support

- Cummins Modbus
- Engine specific J1939 for all major manufacturers
- Diagnostic messages in plain text

Communication interfaces

- Optional USB and RS232 plug-in modules
- Modbus RTU (requires RS232 module)
- Internet (with IG-IB)

Mechanical and operation parameters

- Unit dimension 4.72 × 7.09"
- Sealed front face rated for IP65
- Hard plexiglass LCD cover
- Operation temperature -40°F to +158°F
- Power supply voltage 8-36 V
- Voltage drops shorter than 100 ms do not affect operation

Extension modules

- ▷ IL-NT RS232 RS232 plug-in interface
- ▷ IL-NT USB USB plug-in interface
- ▷ IL-NT AOUT8 gauge plug-in interface
- ▷ IL-NT RD19 remote display
- ▷ IG-IB internet module
- ▷ IGS-PTM extension I/O module
- ▷ IGS-IOM extension I/O module
- ▷ IGL-RA15 15 LED remote annunciator