New InteliLite^{NT}



SINGLE SET GEN-SET CONTROLLER



Description

InteliLite $^{\rm NT}$ models are the new integrated controllers for gen-sets operating in single standby mode. Based on the field proven InteliLite architecture, the new controllers fulfill every requirement needed for AMF and MRS applications - including modem and Internet control, user configuration and complete gen-set monitoring and protection.

InteliLite^{NT} controllers are easy to use and feature an intuitive user interface with graphic display. The built-in event and performance log with backed-up real time clock makes troubleshooting even simpler.

The new design brings 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 full 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
- 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

ComAp is a member of AMPS

of Power generating Systems).

(The Association of Manufacturers



InteliLite^{NT}

Features

3 phase AMF function*

- Over/Under frequency
- Over/Under voltage
- Voltage asymmetry

3 phase generator protections

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

True RMS Voltage measurement

- 3 phase generator and mains* voltages
- Voltage range 277 V p-n, 480 V p-p
- Maximal measured voltage 300 V p-n
- 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)
- 6 or 7* Binary inputs
- 6 or 7* Binary outputs
- Magnetic pick-up input
- D+ preexcitation terminal
- Optional 8 analog gauge drive outputs, compatible with VDO, Datcon gauges

FI 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

Mechanical and operation parameters

- Unit dimension 120 × 180 mm
- Sealed front face rated for IP65
- Hard plexiglass LCD cover
- Operation temperature -20°C – +70°C standard version
- -40°C +70°C low temperature version
- Power supply voltage 8–36 V
- Voltage drops shorter than 50 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 RD remote display

▶ IG-IB Internet module

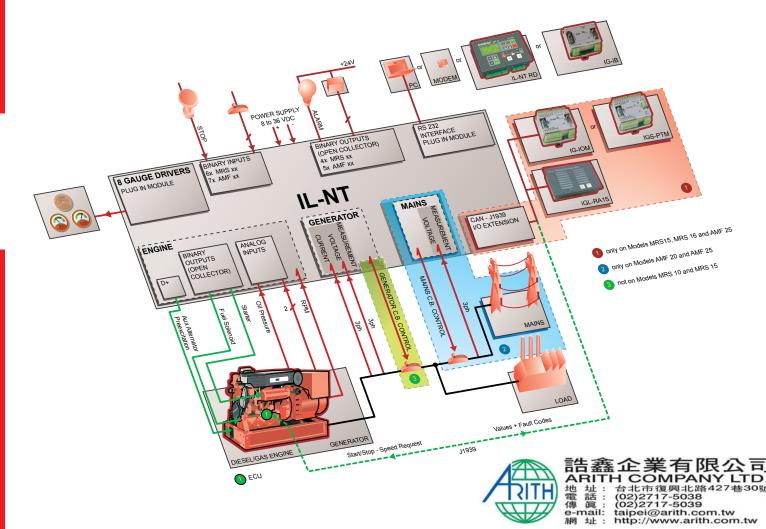
IGS-PTM** extension I/O module

► IGS-IOM** extension I/O module

▶ IGL-RA15** 15 LED remote annunciator

* Only for Models AMF 20 and AMF 25

** Only for Models MRS 15, MRS 16 and AMF 25



Available models

MRS 10

MANUAL AND REMOTE START CONTROLLER



- 3 analog inputs
- magnetic pickup input
- D+ preexcitation terminal
- 6 binary inputs
- 6 binary outputs

MRS 15

MANUAL AND REMOTE START CONTROLLER WITH SUPPORT FOR EFI ENGINES



- 3 analog inputs
- magnetic pickup input
- D+ preexcitation terminal
- 6 binary inputs
- 6 binary outputs
- CAN with J1939 support
- extension modules capability

MRS 11

MANUAL AND REMOTE START CONTROLLER



- 3 analog inputs
- magnetic pickup input
- D+ preexcitation terminal
- 6 binary inputs
- 6 binary outputs
- GCB control

MRS 16

MANUAL AND REMOTE START CONTROLLER WITH SUPPORT FOR EFI ENGINES



- 3 analog inputs
- magnetic pickup input
- ▶ D+ preexcitation terminal
- ▶ 6 binary inputs
- 6 binary outputs
- ▶ GCB control
- CAN with J1939 support
- extension modules capability

AMF 20

AUTOMATIC MAINS FAILURE START CONTROLLER



- 3 analog inputs
- magnetic pickup input
- D+ preexcitation terminal
- 7 binary inputs
- 7 binary outputs
- GCB and MCB control

AMF 25

AUTOMATIC MAINS FAILURE START CONTROLLER WITH SUPPORT FOR EFI ENGINE



- 3 analog inputs
- magnetic pickup input
- > D+ preexcitation terminal
- 7 binary inputs
- 7 binary outputs
- GCB and MCB control
- CAN with J1939 support
- extension modules capability

The Chart of Functions of InteliLite^{NT} Controllers

FUNCTIONS/CONTROLLERS	IL-NT MRS 10	IL-NT MRS 15	IL-NT MRS 11	IL-NT MRS 16	IL-NT AMF 20	IL-NT AMF 25
Binary inputs/outputs	6/6	6/6	6/6	6/6	7/7	7/7
Analog inputs	3	3	3	3	3	3
Magnetic pick-up	•	•	•	•	•	•
AMF function	-	-	-	-	•	•
Input configuration	•	•	•	•	•	•
Output configuration	•	•	•	•	•	•
Voltage measurement Gen. / Mains	3 ph / -	3 ph / -	3 ph / –	3 ph / -	3 ph / 3 ph	3 ph / 3 ph
Current measurement	3 ph	3 ph, IDMT overcurrent	3 ph	3 ph, IDMT overcurrent	3 ph	3 ph, IDMT overcurrent
kW/kWh measurement	•/-	•/•	• / -	•/•	•/-	•/•
History file	-	•	-	•	-	•
RTC with battery	•	•	•	•	•	•
GCB/MCB control with feedback	-1)/ -	-1)/ -	• ²⁾ / -	• ²⁾ / -	•/•	•/•
Battery charging alternator circuit	•	•	•	•	•	•
J1939 interface	-	•	-	•	-	•
Internet support	with IG-IB	with IG-IB	with IG-IB	with IG-IB	with IG-IB	with IG-IB
Extension modules	-	IGL-RA15, IG-IOM, IGS-PTM	-	IGL-RA15, IG-IOM, IGS-PTM	-	IGL-RA15, IG-IOM, IGS-PTM
8 analog gauge drivers	0	0	0	0	0	0
RS232 interface	0	0	0	0	0	0
Modem interface	0	0	0	0	0	0
MODBUS interface	0	0	0	0	0	0
Remote display	0	0	0	0	0	0
Cummins MODBUS	0	0	0	0	0	0

- Key: included
 - excluded
 - O optional plug-in module required
 - 1) Automatic GCB control without feedback
 - 2) Manual/Automatic GCB control, but without feedback

Legend: IG-IOM/IGS-PTM: I/O extension modules

IGL-RA15: Remote annunciator GCB: Generator circuit breaker MCB: Mains circuit breaker

For more information about our products and solutions visit our web-page

MANUFACTURER:

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