

# Control Systems Product Overview



- ▶ GEN-SET CONTROLLERS
- ▶ ENGINE CONTROLLERS
- ▶ PC TOOLS
- ▶ MAINS PROTECTIONS
- ▶ ELECTRONIC POTENTIOMETERS
- ▶ ACCESSORIES



## InteliSys NT®

Parallel with CHP support



### Overview

New Technology InteliSys is an expandable controller for both single and multiple gen-sets operating in standby or parallel modes, especially in CHP and other complex applications. Detachable construction is optimized for easy installation, many different extension modules are available based on the customer requirements for a particular application.

### Features

- CHP support (programmable PID loops and other built-in PLC functions)
- Support of engines equipped with ECU (J1939, ModBus and other proprietary protocols); alarm codes displayed in text form
- Baseload, Import/Export, Analog extern, TempByPower load control
- Optimizing of the number of running engines in multi-gen-set mode
- Inputs/outputs configurable for various customer needs
- Event based history file with up to 1000 records

➔ Find more on the web: [www.thesourceofnewtechnology.com](http://www.thesourceofnewtechnology.com)

### Overview

New Technology InteliGen is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes. Compact construction is optimized for these purposes; various HW modifications allow the customer to select the optimum type for a particular application.

**InteliGen NT EE** – special HW version optimized for ECU-Engines.

### Features

- AMF, continuous parallel function
- Support of engines equipped with ECU (J1939, ModBus and other proprietary protocols); alarm codes displayed in text form
- Baseload, Import/Export, Analog extern load control
- Optimizing of the number of running engines in multi-gen-set mode
- Inputs/outputs configurable for various customer needs
- Event based history file with up to 500 records

## InteliGen NT®

Parallel



➔ Find more on the web: [www.newinteligen.com](http://www.newinteligen.com)

## InteliMains NT

Parallel



### Overview

InteliMains is designed for multiple (up to 31) gen-sets operating in parallel to mains. InteliMains controller connects the group of gen-sets to the mains. It can serve as a bus-tie synchronizing controller between two groups of gen-sets.

### Features

- Mains measurement: U, I, Hz, kW, kVA, PF, kWh, kVAhr
- Bus measurement: U, I, Hz
- Mains failure detection using integrated mains protections
- Bus-tie mode
- Selectable partial or full MCB control
- Configurable level switches based on mains import or object consumption
- Event based history file

➔ Find more on the web: [www.thesourceofnewtechnology.com](http://www.thesourceofnewtechnology.com)

### Overview

InteliLite® AMF models are integrated controllers for gen-sets operating in single standby mode. It meets all possible requirements for AMF applications, including modem control, user configuration and full gen-set monitoring and protection.

### Features

- Support of engines equipped with Electronic Control Unit - J1939 interface (IL-AMF25 only)
- Automatic or manual start/stop of the gen-set
- Push buttons for simple control, lamp test
- Parameters adjustable via keyboard or PC
- Mains measurements (50/60 Hz): U1-U3, Hz
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVA, kWh
- Configurable programmable inputs and outputs

➔ Find more on the web: [www.comap.cz/products/standby](http://www.comap.cz/products/standby)

## InteliLite®

AMF Stand-by



## InteliLite®

MRS

Prime mover



### Overview

InteliLite® MRS models are integrated controllers for single engine control in Manual and Remote Start applications, featuring full gen-set monitoring and protection.

### Features

- Support of engines equipped with Electronic Control Unit - J1939 interface (models IL-MRS 15 and 16 only)
- Automatic or manual start/stop of the gen-set
- Push buttons for simple control, lamp test
- Parameters adjustable via keyboard or PC
- 3 phase Generator protections
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVA, kWh
- Configurable programmable inputs and outputs

➔ Find more on the web: [www.comap.cz/products/primemover](http://www.comap.cz/products/primemover)

# ENGINE CONTROLLERS



## Overview

InteliDrive® DCU Marine is an engine controller designed specially to meet the demanding needs of the marine market; providing a high level of performance coupled with extensive J1939/J1587 communication capabilities and incorporating hardwired safety functions and primary/secondary power switching.

## Features

- Engine sequencing and control
- Engine monitoring and protection
- Configurable J1939 interface with electronic engines including ECU Alarm indication
- Redundant module ID-RPU with hardwired safety functions activated in backup mode
- Automatic switchover to backup mode in case of detection of main unit failure
- Setpoints adjustable via keyboard or PC

## InteliDrive® DCU MARINE Marine



➔ Find more on the web: [www.comap.cz/products/marine](http://www.comap.cz/products/marine)

## InteliDrive® DCU INDUSTRIAL Industrial



## Overview

InteliDrive® DCU Industrial is a highly flexible sophisticated engine controller, which features outstanding control, monitoring and protection for diesel and gas engines as well as peripheral equipment. Industrial software contains a set of programmable functions like Comparators, Timers, PID loops, logic functions and other for easy solution of any industrial application.

## Features

- Engine sequencing and control
- Engine monitoring and protections
- Integrated PLC
- Speed measurement from magnetic pick-up or from J1939
- Running hours meter, number of starts counter
- 14 binary inputs, 14 binary outputs, 8 analog inputs
- Input/output configuration
- Setpoints adjustable via keyboard or PC

➔ Find more on the web: [www.comap.cz/products/industrial](http://www.comap.cz/products/industrial)

## Overview

InteliLite® MRS 15 DCU is a highly flexible sophisticated engine controller with J1939 interface, which features outstanding control, monitoring and protection for diesel and gas engines as well as peripheral equipment.

## Features

- Engine sequencing and control
- Engine monitoring and protection
- Speed measurement from pickup or from J1939
- 6 binary inputs and outputs, 3 analog inputs
- Input/outputs configuration
- Adjustable setpoints (from panel or via PC)
- Password protection

## InteliLite® MRS 15 DCU Marine and Industrial

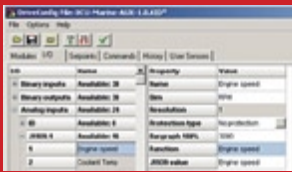


# PC TOOLS

	IG/IS/IM-NT	IS	IG	IL	ID
DriveConfig					■
DriveMonitor					■
GenConfig	■				
I-CBEdit		■			
IGS-LOG		■	■		
InteliMonitor	■	■	■		■
InteliSupervisor	■	■	■		
LiteEdit				■	
WinScope	■	■	■	■	■

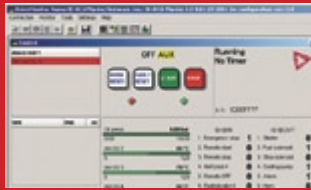
## DriveConfig

PC Tool for IntelliDrive Controllers Configuration



## DriveMonitor

PC Tool for IntelliDrive Controllers Monitoring



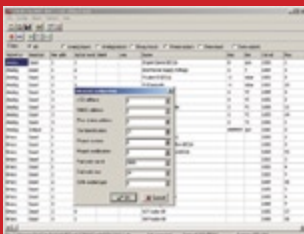
## GenConfig

PC Configuration Tool for IG/IS-NT Controllers



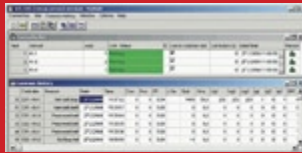
## I-CBEdit

Software Tool for Configuration of I-CB



## IGS-LOG

Continuous Monitoring of Single & Multiple IG/IS Controllers



## InteliMonitor

PC Monitoring Tool for Inteli Controllers



## InteliSupervisor

SW Tool for Gen-set Fleet Management



## LiteEdit

PC Tool for Configuration and Supervision of InteliLite Controllers



## WinScope

Special Controllers' Monitoring Software



**What do all those abbreviations mean?**

**IG/IS/IM-NT** – New Technology controller

**IL** – InteliLite® controller

**IG** – InteliGen® controller

**IS** – InteliSys® controller

**IM** – InteliMains controller

**ID** – InteliDrive® controller

**AMF** – Auto Mains Failure

**MRS** – Manual Remote Start

**CHP** – Combined Heat & Power

# ACCESSORIES



## Extension modules

### IS-AIN8

Analogue input module, 8 inputs, CAN bus connection

### IS-BIN16/8

Binary input/output module, 16 inputs, 8 outputs, CAN bus connection

### I-AOUT8

Analogue output module, 8 outputs, CAN bus connection

### IGS-PTM

Input/output module, 8 binary and 4 analog inputs, 8 binary and 1 analog output

### IG-IOM

Input/output module, 8 binary and 4 analog inputs, 8 binary and 1 analog output

### IGL-RA15

Extension signalling unit for IG/IS-NT, ID or IL, 15 LEDs with configurable colors

## Communication modules

### I-LB / I-LB+

Direct, modem or USB (I-LB+ version only) connection to multiple controllers, RS485, ModBus support for direct connection

### IG-IB

Internet bridge enables connection between controllers and superior service or monitoring software

### I-CR

Used for CAN bus extension in cases where the maximum distance limit would be exceeded

## Remote displays

### I-RD

Remote signalling and control unit with RS232 interface for IL

### I-RD-CAN

Remote signalling and control unit with CAN and RS232 interface for ID

## ECU Communication modules

### I-CB/(CAT, MTU, Deutz TEME)

Communication bridge for the mentioned engines

## Simulators

### StarterKit

Portable simulator for IG/IS-NT, ID or IL

### MultiKit

Simulator of multiple gen-set applications with IG/IS-NT

## Additional modules

### IG-AVRi

Interface between IG/IS-NT and generator AVR

### I-LBA

Low (flat) 12V battery adaptor

### I-RB16/8

Relay board with 16/8 relays



# MAINS PROTECTIONS

### InteliProtec

Integrated protection solution for generators operating in parallel to mains applications, Incorporates Voltage, Frequency, Vector shift, rate of change of Frequency, over current, NVD, reverse power and earth fault protections

### NPU-FU

3-phase mains protection: adjustable Frequency, Voltage, Voltage asymmetry protections

### NPU-FUV

3-phase mains protection: Vector shift protection, adjustable Frequency, Voltage, Voltage asymmetry protections

# ELECTRONIC POTENTIOMETERS

### EP300

Electronic potentiometer - three binary inputs (increase, decrease, init), one 3-pole output of variable resistance (potentiometer)

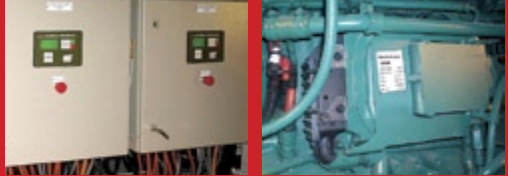
### EP250

Electronic potentiometer - three binary inputs (increase, decrease, init), one 2-pole output of variable resistance (potentiometer)





**International Convention Centre in Pune, India**  
 Uninterrupted power supply for South Asia's largest composite trade and convention centre is guaranteed by 9 x 660 KVA Cummins DG generators, all of which feature IntelliGen controllers for controlling and paralleling of the system.



**M/S Dalarö, Sweden** This icebreaking archipelago passenger vessel features four 450hp VOLVO PENTA D12D propulsion units that use the IntelliDrive DCU Marine for total control of the engine taking care of propulsion load sharing, monitoring, and fault logging.



**Brnik Airport in Ljubljana, Slovenia** The airline repair centre installed an emergency generator for stand by operation in case of power failure. The control panel was equipped with an IntelliLite AMF 20 selected to control and monitor the single OSLO 6B generator package, which incorporated a Volvo engine and a Marelli Alternator.



**Bisha, Saudi Arabia** The new water complex at Bisha provides local residents with their sole source of drinking water and as such continuous operation is essential for prime power delivered using 4 generators featuring CAT 3412 engines. Operating in parallel mode the generators are controlled using IntelliSys in MINT configuration with a modem unit for remote monitoring of the system.



**Download WinScope**



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