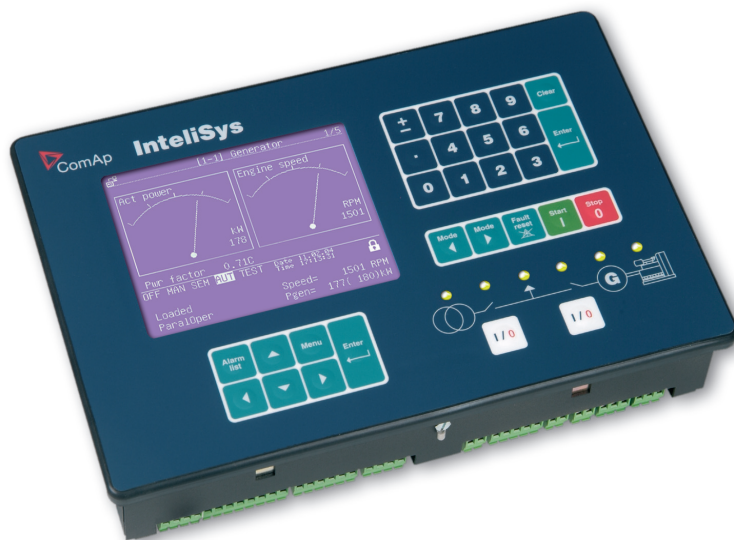


# InteliSys®

## Expandable Gen-set Controller



## Description

InteliSys® is a top end controller of ComAp's product range. It is an expandable controller for single and multiple generating sets operating in standby or parallel modes.

Various built-in features can be enabled using red, blue or green dongles, according to particular customer applications.

InteliSys® controller is equipped with a powerful graphic display. Icons, symbols and bar graphs for intuitive operation together with high functionality set new standards in gen-set control.

ComAp is open to various customized software solutions.

## Features

- CHP support (e.g. universal PID loops)
- Support of engines equipped with Electronic Control Unit
- Automatic synchronising and power control
- Peak shaving
- Interrupt free reverse synchronising
- Voltage and PF control (AVR)
- Active Load Sharing in multi-gen-set mode
- VAR Sharing in multi-gen-set mode (via CAN bus)
- Baseload, Import/Export, Analog extern, TempByPower load control
- Optimizing number of running engines in multi-gen-set mode: Power Management (via CAN bus); kW or % load based; running hours equalization
- Display 320x240 pixels
- Generator measurement: U, I, Hz, kW, kVAR, kVA, PF, kWh, kVAhr
- Mains measurement: U, I, Hz, kW, kVAR, PF (1 phase current only)
- Programmable functions (allow programming of user-specific functions in the system = simple PLC)
- Inputs and outputs configurable for various customer needs
- RS232 interface with ModBus protocol support; Analog/GSM/ISDN modem communication support; SMS sending on gen-set failure
- Event based history file (~ 1000 records), RTC, statistics
- Dimensions 180x284 mm (front panel)
- Sealed to IP65

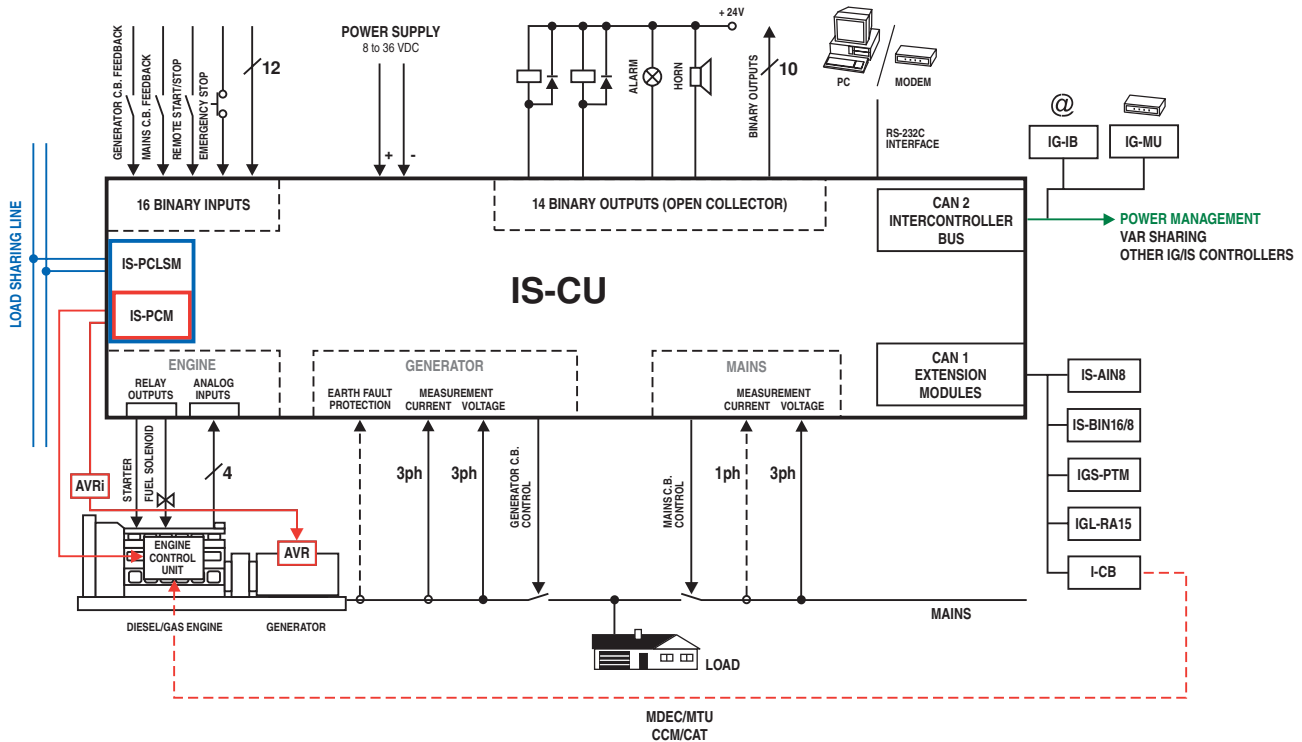
## Benefits

- Support of engines equipped with ECU
- Complete integrated gen-set solution - less wiring and components
- Many types of communication - easy supervision and servicing
- Perfect price/performance ratio



# InteliSys®

## Expandable Gen-set Controller



### Integrated protections

- 3 phase integrated generator protections (U + f)
- IDMT overcurrent + Shortcurrent protection
- Overload protection
- Reverse power protection
- Load surge protection
- Earth fault protection
- 3 phase integrated mains protections (U + f)
- All binary/analogue inputs free configurable for various protection types: Warning / Off load / Slow stop / Unload / Shutdown
- Phase sequence supervision

### Extension features

- up to 8x IS-AIN8 (8 analogue configurable inputs; 2 or 3 wire resistive sensors; voltage, current sensors; thermocouples)
- up to 7x IS-BIN16/8 (16 binary inputs, 8 binary outputs; galvanic separated I/O)
- up to 4x IGS-PTM (4 analogue inputs; 8 binary inputs, 8 binary outputs)
- IGL-RA15 (15 green / amber / red LED indicators)
- I-CB interface to many types of electronic engine control units (e.g. MDEC/MTU, CCM/Caterpillar)

### Communication extension features

- **IG-IB** (Ethernet/Internet communication support; multiple gen-set control via Internet; active e-mails on gen-set failure; Internet dial-up / callback function)
- **IG-MU** (direct or modem control of multiple gen-sets; RS422 / RS485 / ModBus support for direct connection; Analog / GSM / ISDN modem support; modem callback function)
- **WinEdit** - free PC software for configuration and supervision of one IG/IS controller (gen-set); direct / modem / Internet connection
- **MultiEdit** - free PC SCADA software for supervision of a group of IG/IS controllers (gen-sets); easy site overview, including MCB state and load consumption
- **CfgImport** - free PC software for easy upgrading between IS firmware versions
- **IGS-LOG** - PC software for long-term data logging from site with multiple gen-sets; allows displaying of a common history from all gen-sets on site for easy problem finding
- **Supervisor** - automatic data acquisition PC software; periodically downloads data from multiple sites via modem



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