

# InteliDrive DCU Industrial

MODULAR ENGINE CONTROLLER FOR INDUSTRIAL APPLICATIONS



## Benefits

- ▶ Integrated solution with hardwired safety functions – less wiring and components
- ▶ Full communication support of engines with ECU – simpler wiring, access to information from ECU via Modbus
- ▶ Event driven History record, easy backtracking and problem solving
- ▶ Load sharing for propulsion engines – better power utilization of installed engines
- ▶ Slave panels available – economical solution of remote control
- ▶ Integrated clutch control – less wiring and components
- ▶ Many types of communication – easy supervision and servicing
- ▶ Perfect price/performance ratio
- ▶ Built-in PLC-integrated control of compressors, pumps or other driven technology

## Description

The InteliDrive DCU Industrial is a highly flexible sophisticated engine controller, which features outstanding control, monitoring and protection for both mechanical and electronic diesel/gas engines as well as peripheral equipment. The extended product family offers a range of engine specific versions suitable for land-based applications. Most commonly, these tailored applications meet the specific control requirements of engine driven compressors and pumps.

InteliDrive DCU Industrial can communicate via standard and proprietary CAN J1939 communication protocols to a wide range of EFI engines, which include Caterpillar, Cummins, Detroit Diesel, Deutz, GM, Isuzu, Iveco, John Deere, MAN, MTU, Perkins, Scania, Sisu, Volvo Penta and others. Designed to be highly flexible, InteliDrive DCU Industrial can be expanded by means of additional modules to offer over 100 binary inputs and outputs.

The set of PLC (analog and binary) functions is available in the standard software and can be used by the customer to control and regulate drive-train components.

Like all ComAp products, InteliDrive DCU Industrial features a powerful graphic display providing user-friendly information in an easy to understand format – not only for professionals but also for occasional users. The diagnostic information is available in intelligible plain text instead of potentially misleading cryptic codes or flashing lights.

Remote control and monitoring is possible via analog/GSM modem, SMS or Internet.

## Order code

Product	Order code
InteliDrive DCU Industrial	ID-DCU



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.



The product has the UL Certification.

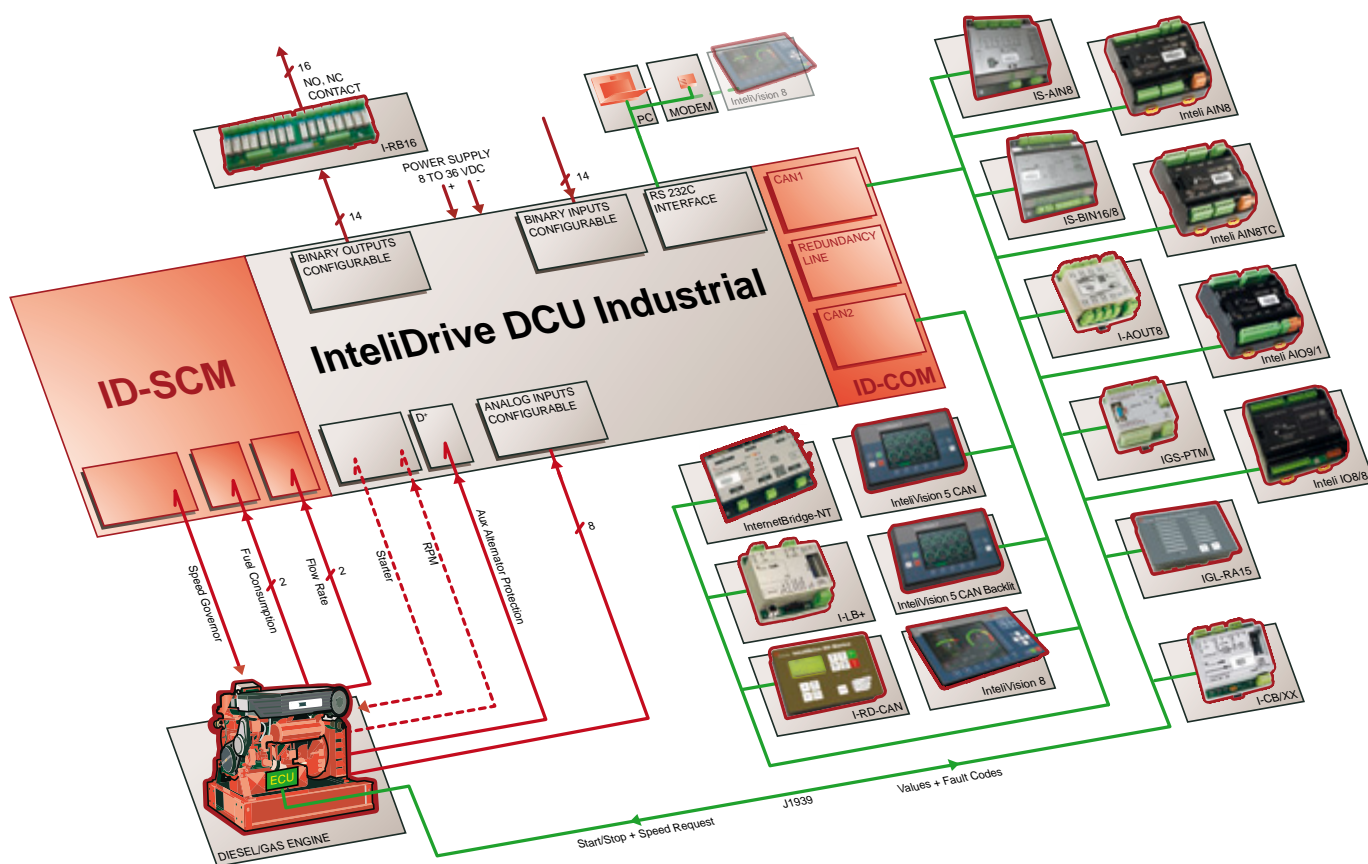
## Features

- ▶ Engine control, monitoring and protection
- ▶ 14 binary inputs, 14 binary outputs, 8 analog inputs
- ▶ RS232C/Modem/Modbus/Internet communication
- ▶ Engine measurement from sensors or via J1939
- ▶ Input/output and J1939 configuration
- ▶ Running hours meter, number of starts counter
- ▶ Graphic back-lit LCD display with icons and bar graphs
- ▶ Sealed membrane panel to IP65
- ▶ 180 x 120 mm front panel mounted case
- ▶ Operating temperature:
  - -20 to +70 °C regular unit
  - -40 to +70 °C low temperature unit
- ▶ 3 level password protection
- ▶ IntelliDrive DCU Industrial controller meets several forcing counter standards (EN, UL, CSA, NFPA)
- ▶ Internal – configurable PLC functions

## Configurable PLC functions

- ▶ Logical functions: AND, OR, XOR, RS
- ▶ Comparators with delay or with hysteresis
- ▶ Analog switch from two inputs to one output
- ▶ Mathematics functions: ADD, SUB, MAX, MIN, AVG
- ▶ Linear interpolation, Moving average
- ▶ PID loops with analog or binary outputs
- ▶ Counters, Timers, Delay functions
- ▶ History and protection forcing
- ▶ Rump Up/Down, Inc/Dec, Jump, Programmable switches and others

## Schematic diagram



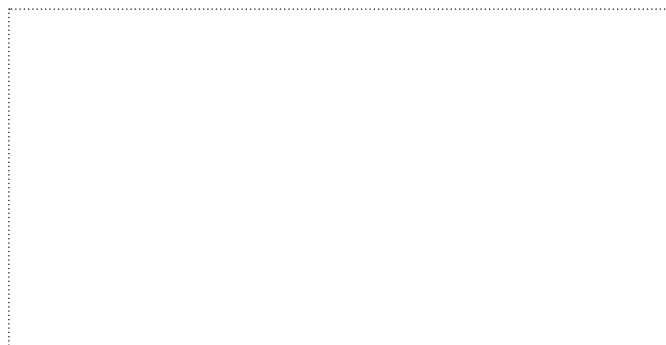
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