

InteliDrive® DCU-Industrial

DIESEL ENGINE CONTROLLER



Description

The new InteliDrive® is a highly flexible sophisticated engine controller, which features outstanding control, monitoring and protection for diesel and gas engines as well as peripheral equipment. The extended product family offers a range of engine specific versions suitable for land-based and marine applications. Most commonly, these tailored applications meet the specific control requirements of marine based gen-set's, propulsion engines as well as engine driven compressors and pumps.

InteliDrive® can communicate bi-directional via a serial link using standard and proprietary CAN J1939 communication protocols to a wide range of EFI engines, which include Volvo Penta, Scania, MTU, CAT, Cummins, GM and Deutz. The controller comes with Drive Config- and Drive Monitor-PC software, both enabling the user to freely configure the inputs and outputs to suit individual requirements. Designed to be highly flexible, InteliDrive® can be expanded by means of additional modules to offer over 100 binary inputs and outputs.

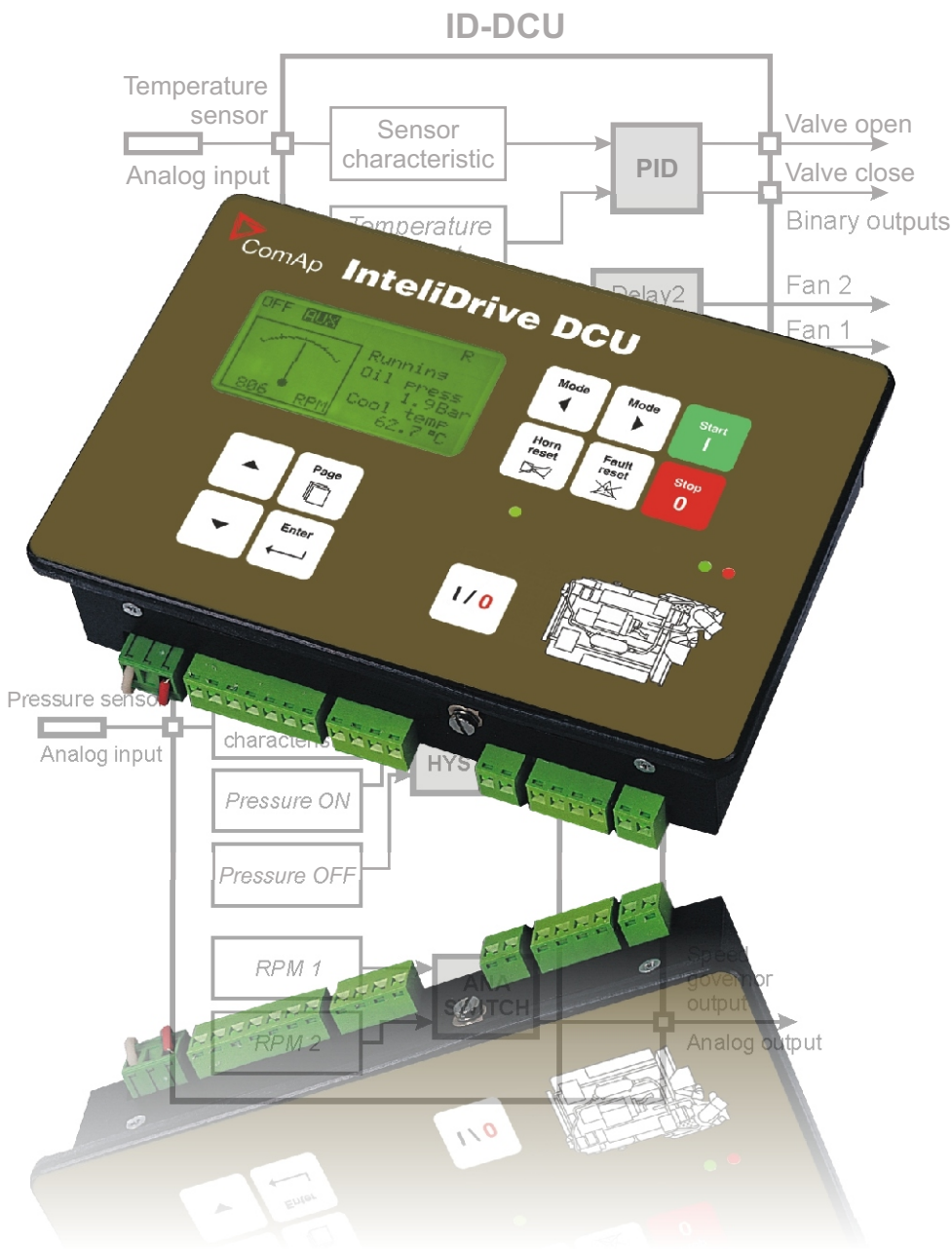
Like in a PLC, InteliDrive® has a number of additional logical functions. These are available within the standard software and can be used by the customer to control and regulate drive-train components.

The analogue inputs are easily configurable to support the various types of engine sensors and with those engines equipped with an Electronic Control Unit (ECU) the values are read via the CAN-Bus direct from the ECU and displayed. InteliDrive® features a powerful graphic display providing user-friendly information in an easy to understand format not only by professionals but also by occasional users. The diagnostic information is available in intelligible plain text instead of potentially misleading cryptic codes or flashing lights.

Product Features

Diesel control unit ID-DCU

- ▷ Universal diesel engine controller
- ▷ Engine control, monitoring, protection
- ▷ CAN J1939, alarm list, history record
- ▷ Superior communication possibilities
- ▷ Programmable logic
- ▷ Diesel engine powered fire pump systems, irrigation pumps
- ▷ Sprinkler mode
- ▷ Constant flow rate control
- ▷ Diesel engine powered compressors
- ▷ Compressor temperature, system pressure monitoring
- ▷ Programmable start/stop, in daily or weekly cycles
- ▷ Pressure control

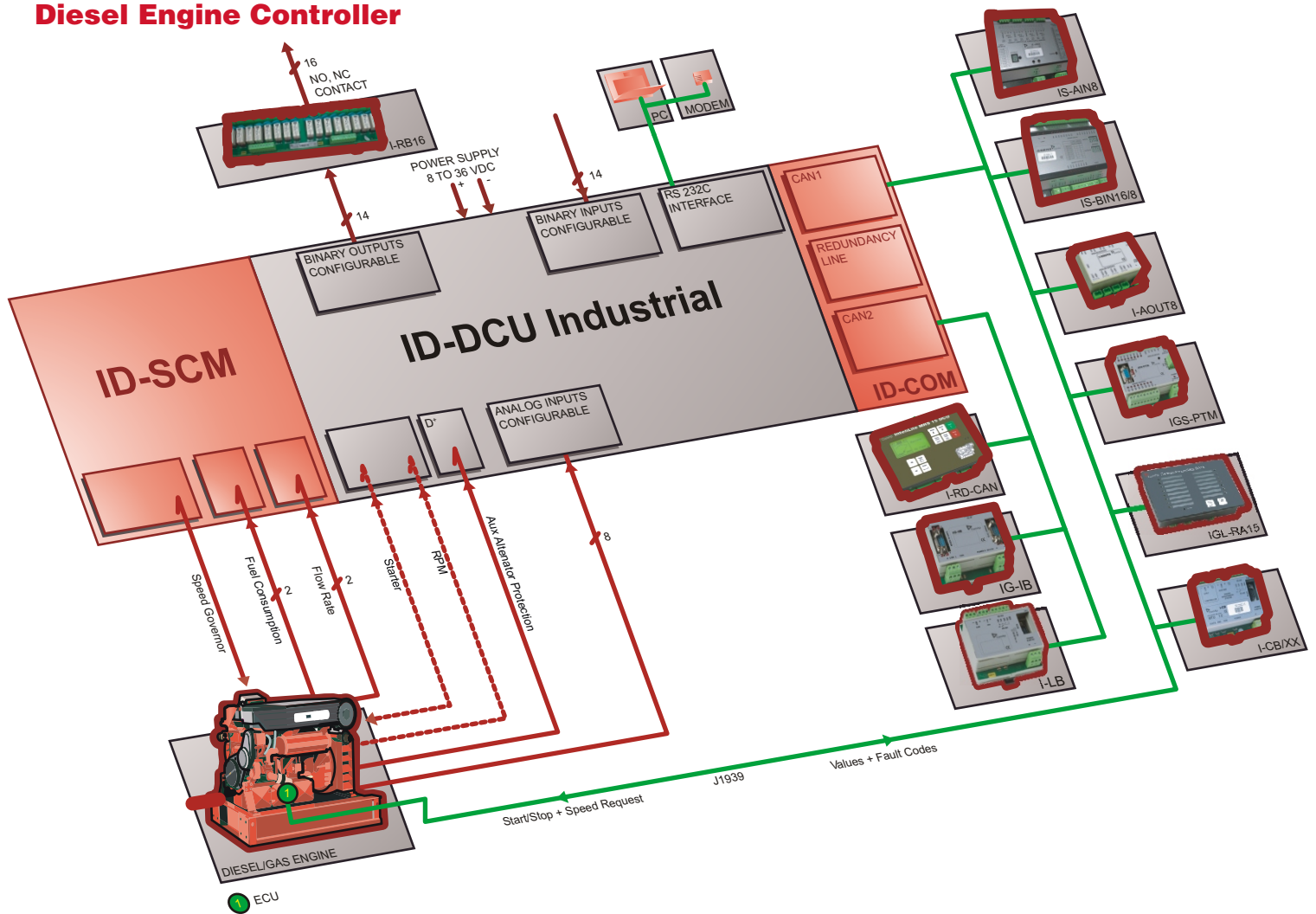


ComAp is a member of AMPS
(The Association of Manufacturers
of Power generating Systems)



ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.

Diesel Engine Controller



General features

- ▶ Engine control, monitoring and protection
- ▶ 14 binary inputs, 14 binary outputs, 8 analog inputs
- ▶ Engine data from sensors or via J1939
- ▶ Input/output and J1939 configuration
- ▶ 3 level password protection
- ▶ Running hours meter, number of starts counter
- ▶ RS232/ModBus communication

Extension features

- ▶ Up to 4x **IS-AIN8** (8 analogue configurable inputs; resistive, voltage, current sensors; thermocouples)
- ▶ Up to 4x **IS-BIN16/8** (16 binary inputs, 8 binary outputs; galvanic separated I/O)
- ▶ Up to 4x **I-AOUT8** (8 analog 10V or 20mA outputs)

- ▶ Graphic back-lit LCD display with icons and bar graphs
- ▶ Sealed membrane panel to IP65
- ▶ 180x120 mm front panel mounted case
- ▶ Operating temperature range: -20 + +70 °C regular unit, -30 + +70 °C low temperature unit
- ▶ Power supply: 8-36 VDC
- ▶ IntelliDrive controller meets several standards (EN, UL, CSA, NFPA, ...)

- ▶ 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)

Programmable functions

- ▶ Logical functions: AND, OR, XOR, RS
- ▶ Comparators with delay or with hysteresis or window
- ▶ Analog switch from two inputs to one output
- ▶ Mathematical functions: ADD, SUB, MAX, MIN, AVG
- ▶ Linear interpolation, Moving average
- ▶ History and Protection forcing
- ▶ PID loops with analog or binary outputs
- ▶ Counters, Timers, Delay functions

- ▶ **ID-SCM** speed control module (Analog Speed governor interface; 2 frequency inputs; 2 impulse inputs; 2 analog outputs; mounted directly on ID-DCU case)
- ▶ **ID-SCM1** (1 Analog output)



MANUFACTURER

ComAp, spol. s r. o.
Czech Republic
Phone: +420 246 012 111
Fax: +420 266 316 647
E-mail: info@comap.cz
Internet: www.comap.cz

LOCAL DISTRIBUTOR/PARTNER

