

# InteliDrive Panel



Order code: ID2P2200BAA,

ID2M2200BAA

## Datasheet

## Controller panels for industrial applications

### Product description

- ▶ The InteliDrive Panel is complete controller solution designed for immediate use with minimal requirements for installation and configuration
- ▶ The panel includes a powerful but easily configurable and user-friendly controller InteliDrive IPC and all other components necessary for control industrial applications.
- ▶ There are used industry standard Deutsch connectors that allow easy connection of the simplest mechanical engines and the latest fully electronic engines.
- ▶ The controller is fully configurable from the front user interface or PC configuration tool.
- ▶ The InteliDrive panel is available in two rugged enclosures – metal and polycarbonate.

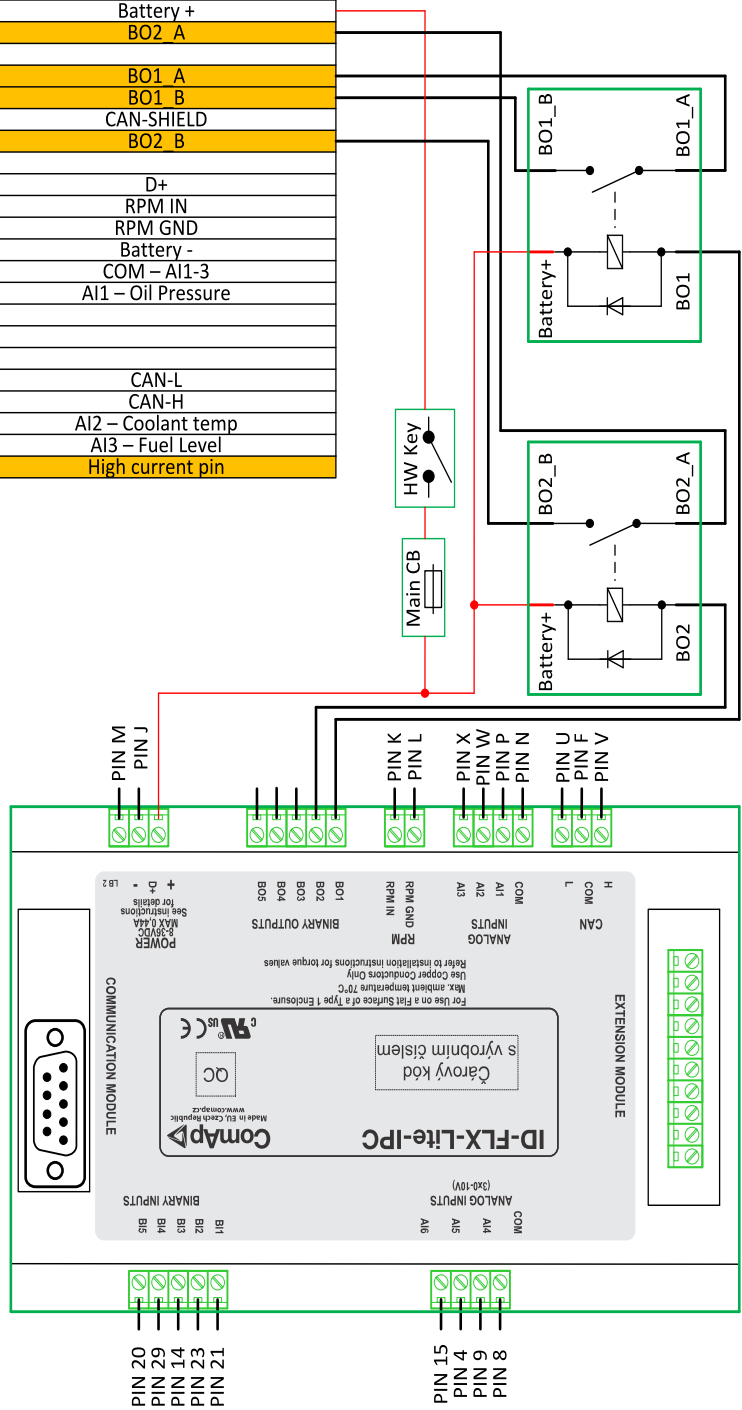
### Key features

- ▶ A complete solution ready for immediate installation
- ▶ Engine and pump controller for land-based and marine Tier4 applications
- ▶ Control, monitoring and protection for both mechanical and electronic diesel/gas engines in one unit
- ▶ Automatic, manual or remote start/stop of the engine
- ▶ Support of engines with Electronic Control Unit (ECU) - J1939 or Cummins Modbus
- ▶ Analog oil pressure, water temperature, fuel level, battery voltage, engine speed (pick-up)
- ▶ Smooth engine speed control by Up/Down controller buttons, binary inputs for predefined speed options, Speed Up/Down binary inputs or one analog input
- ▶ Pump functionalities: flow meter, flow switch, set of flexible timers
- ▶ Selectable protections alarm/shutdown
- ▶ 3 levels of password protection
- ▶ Ethernet, USB, GSM/GPRS, RS485 or RS232/Modem/Modbus communication
- ▶ Automatic SMS on alarm
- ▶ On-line control and monitoring over web pages (embedded web server)
- ▶ 2 languages (user changable)
- ▶ Real time clock and ecent history log
- ▶ Panel sealed to IP67 (plastic) and IPxx (metal)

# Deutsch connectors wiring

31 Position, Deutsch HDP24-24-31PE – I/O	
PIN	Function
1	
2	
3	
4	AI5 - ...
5	
6	
7	
8	COM – A14-6
9	AI4 - ...
10	
11	
12	
13	
14	BI3 – Remote Stop
15	AI6 - ...
16	
17	
18	BO3 - Prestart
19	BO4 - Preglow
20	BI5 – Flow Switch
21	BI1 – Emergency Stop
22	
23	BI2 – Remote Start
24	BO5 - ...
25	
26	
27	
28	
29	BI4 – Remote Start/Stop
30	
31	ID-IPC only

21 Position, Deutsch HDP24-24-21PE - Engine	
Pin	Function
A	Battery +
B	BO2_A
C	
D	BO1_A
E	BO1_B
F	CAN-SHIELD
G	BO2_B
H	
J	D+
K	RPM IN
L	RPM GND
M	Battery -
N	COM – AI1-3
P	AI1 – Oil Pressure
R	
S	
T	
U	CAN-L
V	CAN-H
W	AI2 – Coolant temp
X	AI3 – Fuel Level
	High current pin



## Technical data

### Specifications

<b>Controller</b>	InteliDrive IPC
<b>Power supply range</b>	8 - 36 V DC
<b>Power consumption</b>	440 mA @ 8 V; 40 mA @ 36 V (controller consumption)
<b>Power supply drop-out immunity</b>	100 ms (from min. 10 V)
<b>Operating temperature</b>	-20 .. +70 °C
<b>Protection degree</b>	IP67 - ID2P2200BAA IPxx - ID2M2200BAA
<b>Enclosure</b>	Polycarbonate - ID2P2200BAA Cold rolled steel - ID2M2200BAA
<b>Mating Connectors</b>	Deutsch HDP24-24-21PE Deutsch HDP24-24-31PE
<b>Main Circuit Breaker</b>	10 A, 36 VDC
<b>Key Switch</b>	12 VDC, 20 A; 24 VDC, 8 A

### Binary inputs and outputs

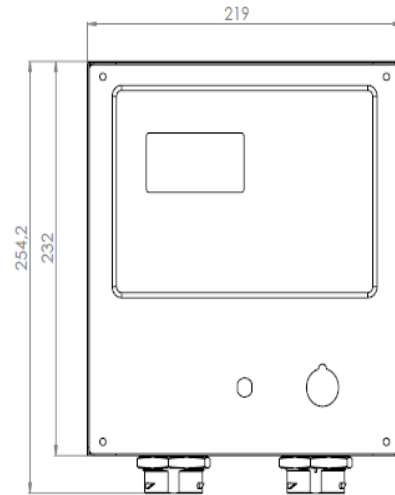
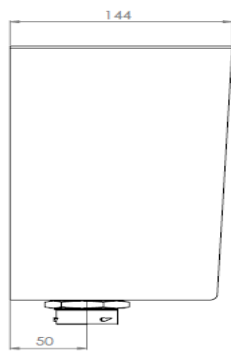
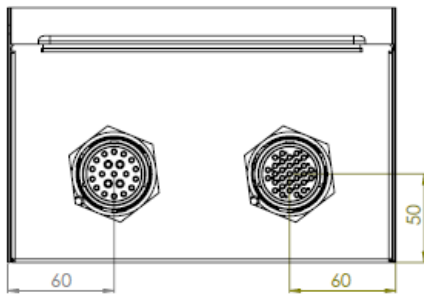
<b>Analog Inputs</b>	6x Resistive 0 -2500 Ω/ Voltage 0 – 10 V
<b>Binary Inputs</b>	5x
<b>Binary Outputs</b>	2x 10 A, 3x 0,5 A
<b>Magnetic Pick-Up</b>	1x
<b>D+</b>	300 mA

### Communications

<b>USB</b>	1x
<b>CAN</b>	1x SAE J1939, Modbus

## Dimensions

### Metal panel



### Plastic panel

