

New features of ID-DCU-Industrial-2.1

Software installation

Two installation CD's are available for IntelliDrive-Industrial-2.1:

EXPERT	Complete controller and PC software pack for controller configuration and monitoring.
USER	Monitoring software only.

ID-DCU-Industrial-2.1 is compatible with following PC software (no change against ID-DCU-Industrial-2.0).

DriveConfig-2.0	Controller configuration tool
DriveMonitor-2.0	Controller monitoring tool
WinScope-1.2	Graphical records tool
GM setup-1.4	GSM modem setup tool
IBConfig-1.2	IG-IB internet bridge configuration tool
ICB-Edit-1.1	I-CB communication bridge configuration tool

Firmware and default archives

ID-DCU-Industrial-2.1 firmware is improved version of ID-DCU Industrial-2.0 that is based on previous version of ID-DCU-Marine-1.2.

Firmware	Application file (AID archive)	ESF
... IntelliDrive \ App \IntelliDrive \ App \ Default \...	...IntelliDrive \ Database \...
ID-DCU-Industrial-2.1.mhx	DCU-Industrial-SS-2.1.aid DCU-Industrial-AS-2.1.aid	VolvoMarineProp.esf VolvoMarineAux.esf
I-RD-Marine-1.3.mhx	DCU-Industrial-SS-StarterKit-2.1.aid	ScaniaS6Aux.esf ScaniaS6Prop.esf StandardJ1939engine.esf

Available documentation

ID-DCU-Marine-2.0.pdf
 DriveConfig-2.0.pdf
 DriveMonitor-2.0.pdf
 IntelliCommunicationGuide.pdf
 WinScope-1.1.pdf
 WinScope-1.2-New features.pdf

New features of ID-DCU-Industrial-2.1



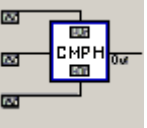
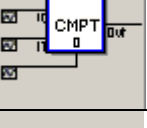
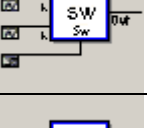
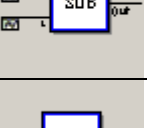

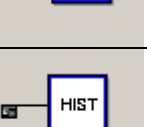
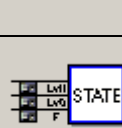
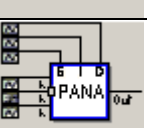
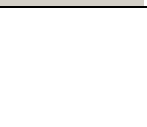
- Repaired possibility of incorrect indication of configurable alarms from external modules.

New features of ID-DCU-Industrial-2.0

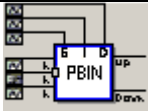
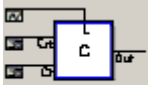

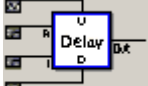
- Two application archives only (modes OFF and RUN).
 - SS: Single speed (similar to AUX in Marine),
 - AS: All speed (similar to propulsion in PRP).
- Industrial software is not compatible with ID-RPU module, but with ID-SCM interface module.
- Protections against unintended engine stop:
 - 1 sec hold STOP button to activate STOP function
 - Switching to OFF mode is blocked on running engine
- Timer for automatic (periodic) engine start stop.
- Standard Fuel solenoid function against Marine where Fuel solenoid is closed in engine Stop state.

New features of ID-DCU-Industrial-2.1

- PLC functions:

Config item	Function name Number of functions	Function Inputs, outputs, setpoints
	Log Func I. 16	AND, OR 2 to 8 inputs, binary output
	Log Func II. 16	XOR, RS 2 binary inputs, binary output
	Comp Hyst 8	Two limit comparator (with hysteresis) Analog input, two limits, binary output
	Comp Time 8	One limit comparator with delay Analog input, one limit + delay, binary output
	Ana Switch 4	Selected analog input is connected to analog output. Two analog inputs, binary input as selector, analog output
	Math Func 4	ADD, SUB, AVG, MAX, MIN Two analog inputs, analog output
	Mov Avg 2	Low pass filter Analog input, analog output, setpoints: Exp.weight and Period
	InterpolFunc 2	Linear interpolation Analog input, analog output, setpoints: two points coordinates
	ForceHistory 4	Binary input causes history record when changes from 0 to 1
	ForceProtect 4	Wrn, Cd, Sd, Fls protection activation by internal binary signal.
	PID Ana 2	PID control loop with analog output Analog input, Requested value, PID setpoints, analog output

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	PID Bin 2	PID control loop with binary output Analog input, Requested value, PID setpoints, binary outputs
	Counter 2	Rising, falling edges counter Binary input, analog limit, reset, binary output
	Timer 2	Periodic signal generator Binary input Run and Reload, analog input reload, binary output
	Delay 8	Adjustable rising and falling edge delay Binary input, two delays, Reset input, binary output

Remote panel

- I-RD-Marine-1.3.mhx firmware must be used for ID-DCU-Industrial-2.x
- I-RD-Marine-1.3.mhx firmware is compatible with 1.2 DCU Marine and VP firmware
- There is the same functionality as I-RD-Marine-1.2, only internal detection of controller configuration was changed to be compatible with IDDCU Industrial PLC functions
- Previous I-RD-Marine-1.2 is not compatible with ID-DCU-Industrial-2.x

DriveConfig-2.0

- DriveConfig-2.0 is based on previous version 1.2
- DriveConfig-2.0 is compatible with 1.2 DCU Marine and VP firmware
- The main change in 2.0 is PLC configuration support
- See DriveConfig-2.0.pdf

DriveMonitor-2.0

- The reason for DriveMonitor upgrade is compatibility with IntelliDrive Industrial-2.x PLC functions.
- No functional change against DriveMonitor 1.2.
- See DriveMonitor-2.0.pdf

WinScope-1.2

- The reason for WinScope upgrade is compatibility with IntelliDrive Industrial-2.x PLC functions.
- No functional change against WinScope-1.1
- See WinScope-1.1.pdf and WinScope-1.2-New features.pdf