

InteliDrive Nano InteliDrive Nano WP Short Guide



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InteliDrive Nano WP, SW version 1.4
© ComAp – January 2013

Screens and Icons

1st Measuring Screen

	1800 rpm	Engine RPM
	9s	Engine State and Timers
	26.3h	Running Hours
Status – Dashboard		

Alarm-History (10 items screen)

	195920h ✓	Alarm-History (10 items)
	193970h !	
	192999.0h ✓	
	192999.0h !	

Engine States

	Ready
	Starting
	Running
	Loaded
	Cooling
	Not Ready

2nd Measuring Screen

	2.5 bar	Oil Pressure
	70°C	Cooling Temperature
	31%	Fuel Level
	13V	Battery Voltage

Events

	Manual Start
	Remote Start
	Level Start
	Level Stop
	Run Time Stop
	Manual Stop
	Remote Stop
	Auto On
	Man On
	Power On

Dashboard

	Remote Start/Stop	(102)
	Access Lock	(104)
	Level Start	
	Control Loop Active	
	Remote AUT	(129)
	Speed Switch	(128)
	Not Used	
	Active Alarm	

3rd Measuring Screen

	1800 rpm	Engine RPM – Actual
	1800 rpm	Engine RPM Request
	5.0 bar	Control Loop – Actual
	5.0 bar	Control Loop Requested

Shut and Cool-downs

	Emergency Stop	
	Overspeed	
	Underspeed	
	Low Oil Pressure	(123)
	High Coolant Temperature	(125)
	External Cooldown 1	(115)
	Start Fail	
	Stop Fail	
	Battery Flat	

Menu Icons

	Runtime Setpoints: R09–R12
	Up/Down Buttons: Screen Listing
	Up/Down Buttons: RPM Modification
	MAN Mode
	AUT Mode

The 3rd screen disappears when
B01 Basic settings: Application = Single Speed

4th Measuring Screen

	36 %	Level Start/Stop
	70°C	Wrn/Cd Protection 1
	2.8 bar	Wrn/Cd Protection 2
Free Line		

Warnings

	Warning Maintenance	
	Low Battery	
	Low Fuel Level	(121)
	External Warning 1	(110)
	ECU Communication Error	
	Watchdog	

Not configured value is displayed as -----.
Screen disappears when all values are not configured.

Outputs, Inputs and Setpoints

Output Code	Output Source	Type	Terminal Assignment
O00	Not Used	Binary	T04-5, T06-7, T08, T09
O01	Starter	Binary	T04
O02	Fuel Solenoid	Binary	T06
O03	Stop Solenoid	Binary	T06
O04	Alarm	Binary	T04-5, T06-7, T08, T09
O07	Ready To Load	Binary	T04-5, T06-7, T08, T09
O08	Prestart	Binary	T04-5, T06-7, T08, T09
O09	ECU Power Relay	Binary	T04-5, T06-7, T08, T09
O10	Cooling Pump	Binary	T04-5, T06-7, T08, T09
O11	Close Load	Binary	T04-5, T06-7, T08, T09

Input Code	Input Source	Type	Terminal Assignment
I00	Not Used	Binary	T11, T12, T13, T14, T15, T16, T18, T20, T21, T22, T24, T25
I01	Emergency Stop	Binary	T12
I02	Remote Start/Stop	Binary	T11
I04	Access Lock	Binary	T24, T25
I10	External Warning 1	Binary	T12, T24, T25
I15	External Cooldown 1	Binary	T12, T24, T25
I20	Low Fuel Level	Binary	T13
I21	Fuel Level Analog	Analog	T13
I22	Low Oil Pressure	Binary	T14
I23	Oil Pressure Analog	Analog	T14
I24	High Coolant Temp	Binary	T15
I25	Coolant Temp Analog	Analog	T15
I27	Loop Disabled	Binary	T25
I28	Speed Switch	Binary	T24
I29	Remote AUT	Binary	T11, T12, T24, T25
I30	SdOverride	Binary	T11
I50	Control Loop AIN	Analog	T22
I51	Start/Stop Level	Analog	T21
I52	Speed Request	Analog	T18
I53	Wrn/Cd Protection 1	Analog	T20
I54	Wrn/Cd Protection 2	Analog	T16

Basic Settings	Parameter	Value
B03	Gear Teeth	1-300/120
B04	Nominal RPM	100-4000/2200 RPM
B05	Units Format	1 = Metric; 2 = US/1
B07	Zero Power Mode Delay	0-360/0 min
B08	Application	1 = SS; 2 = VS/2
B09	RPMbyWterminal	0.50-2.00/1.00

RPM Control	Parameter	Value
R01	Idle Time	1-180/5 s
R02	Idle Speed	500-4000/800 RPM
R03	Operational Speed	500-4000/2200 RPM
R04	Speed Switch	500-4000/1500 RPM
R05	Speed Ramp	100-1000/400 RPM/s
R06	Speed Request in MAN	1 = BIN; 2 = AIN/1
R07	Speed Request 0%	500-4000/800 RPM
R08	Speed Request 100%	500-4000/2200 RPM
R09	Control Loop Gain	± 100.00/10.00 %
R10	Control Loop Int	± 100.0/10.0 %
R11	Control Loop Request	± 32000/0
R12	Control Loop Bias	0-10000/0
R13	Control Loop In 0%	0-10000/0
R14	Ctrl Loop In 100%	0-10000/1000
R15	Min Speed Limit	500-4000/800 RPM
R16	Max Speed Limit	500-4000/2200 RPM

Engine Parameters and Protections	Parameter	Value
E01	Prestart Time	0-600/2 s
E02	Max Cranking Time	0-60/5 s
E03	Cooling Time	0-3600/30 s
E04	Oil Pressure Shut Down	0-10.0/1.0 bar
E05	Cool Temp Cool Down	0-150/90 °C
E06	Batt Under Volt Warning	8-36.0/22.0 V
E07	Warning Maintenance	0-10000/9999 h
E08	Running Timer	0-1000/0 min
E09	Level Start	0-100/0 %
E10	Level Stop	0-100/0 %
E11	Level Delay	0-1800/5 s
E12	Warning Protection 1	± 32000/0 (eng.run only)
E13	Cool Down Protection 1	± 32000/0 (eng.run only)
E14	Protection 1 Delay	0-60/5 s
E15	Warning Protection 2	± 32000/0
E16	Cool down Protection 2	± 32000/0
E17	Protection 2 Delay	0-60/5 s
E18	After Cooling Time	0-3600/30 s
E19	Oil Pressure Warning	0-10.0/2.0 bar (delay 3 s)
E20	Cool Temp Warning	0-150/90 °C (delay 5 s)
E21	Fuel Level Warning	0-100/10 % (delay 20 s)
E22	Fuel Level Cool Down	0-100/5 % (delay 20 s)
E23	Protection1 Run Delay	0-3600/5 s
E24	Starting RPM	5-1500/350 RPM

Default Curves

1 T15: Coolant Temp: VDO 40-120 °C
 2 T14: Oil Pressure: VDO 10 bar
 3 T13: Fuel Level: VDO Level %
 4 T22: Ctrl Loop In: 20 mA/100
 5 T21: LevelStart/Stop: 20 mA/100 %
 6 T20: Wrn/Cd prot1: 20 mA/100
 7 T18: SpeedRequest: 1kΩ/2200 RPM
 8 T16: Wrn/Cd prot2: 10 V/100

[Symbol] Normally Open Contact – Output
 [Symbol] Normally Closed Contact – Output
 [Symbol] Normally Open Contact – Input
 [Symbol] Normally Closed Contact – Input

Controller Setup

Conditions: Stopped engine and controller in Manual mode.

Setup mode: Press and hold **Stop** button, then shortly press **▲** button, **▼** button and then **Menu**.

Welcome/Info screens: Press and hold **Stop** button and then shortly press **▲**, then press **▼** to switch LCD to version info screen.

Exit: Press **Stop** button for exit.

Setpoints setup: Use **▲** and **▼** buttons to move or change value. **Start** button to select setpoint or confirm changes and **Stop** button to go back.

RunTime setpoints: R09 to R12 setpoints can be adjusted on Running engine from Menu. To apply all changes, return to the main setup menu and restart the controller press the **Stop** button.

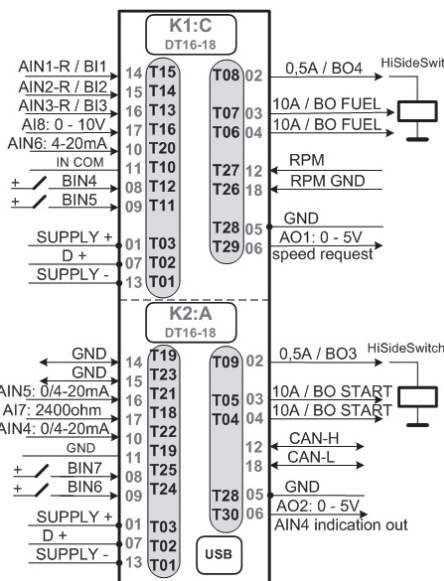
ECU setup: For ECU configuration use PC software DriveEdit. For more details see InteliDrive Nano Reference Guide.

ID-Nano-1.x.dnf firmware and configuration file **ID-Nano-1.x.adn** are compatible with both Water Proof and standard hardware versions.

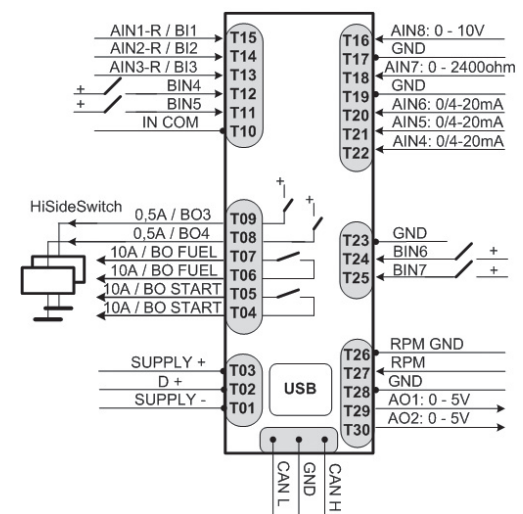
Panel dimensions

InteliDrive Nano: 118 mm × 108 mm × 40 mm
 InteliDrive Nano WP: 125 mm × 115 mm × 70 mm
 Cutout: 91 mm × 91 mm

InteliDrive Nano WP



InteliDrive Nano



Part	Order Code	Note
DT16-18 plug	DT16-18 SA-K004	K1:C
DT16-18 plug	DT16-18 SC-K004	K2:A
Female contact	0462-201-16141	0.5-1.5 mm ²
Sealing plug	61103-20	For not used position

WARNING!
 Connect D+ terminal to battery positive if not used.