

NVK-ENG-XXX

Versions available: 5 Engines data, 20 Engines data

Prod. Cod.:

GENIUS7G

Please contact our official dealer for your country to choose the most suitable configuration for your project

Engines control with a touch



NAVIOP ENGINES system has been designed and built to display all the engine's operating conditions. The most cutting-edge technology has been used to create the monitoring system. The user-friendly principle has been employed to guarantee users an easily intuitive approach, with data clearly shown.

NAVIOP ENGINES can manage and control directly on a Naviop panel all most wellknown and used engines' protocols data. The monitoring system is automatically activated and deactivated when the vessel engine's electronic system is switched on and off.

- **GENIUS GLASS 7 high brightness panel (N-GENIUS7G)**
- **Naviop standard graphics interface.**
- **FOS 01 Module (N-FOS01)**
- **DB9 female headed can drop (C-26515)**

Its modern and nice-looking shapes can fit in whatever kind of dashboards in an elegant and harmonious way and thanks to its fully scalable technology the product can be customized according to different requirements so to satisfy the needs of the most attentive and mixed customers.

NAVIOP ENGINES can be equipped also by two optional functionalities:

- **NAVIOP CHARTS**, the embedded NAVIONICS cartography which can be shown and controlled directly on the NAVIOP display
- **TRIP COMPUTER**, the new functionalities which enable to calculate your boat's actual fuel consumption and inform you about the range of time and miles.

Official Dealer:
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Engines control with a touch

When the engine's electronic system is switched on you can access the Home Page and navigate through data pages operating on a sliding menu. Many pages show you both analog and digital data, such as:

- Engine Speed (RPM)
- Engine Oil Pressure (Bar)
- Engine Batteries Voltage (Volt)
- Engine Hours (Hours)
- Engine Coolant Temperature (Celsius Degree)
- Engine Current Fuel Consumption

The NAVIOP ENGINES is available both in landscape and in portrait mode.



According to each customer's need it will be possible to choose between 2 versions:

1. **BASE: 5 Engine data (SAE J1939, Analogue, NMEA2000)**
2. **ADVANCED: 20 Engine data (SAE J1939, NMEA2000)**

The Genius 7G panel is equipped with a CAN port to collect data:

- directly from the engine's electronic board
- through the NMEA2000 protocol
- through classic analogue signals.

Engines Data	Code
5 data SAE J1939	NVK-ENG-S-J1939
5 data NMEA2000	NVK-ENG-S-N2000
5 data analogue	NVK-ENG-DAB
20 data SAE J1939	NVK-ENG-M-J1939
20 data NMEA2000	NVK-ENG-M-N2000

Options	Code
Charts	N-CHARTS
Trip computer	N-TRIP

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GENIUS 7G display



GENIUS 7G operating panel combines state-of-the-art features and top performance with an outstanding design. It is the ideal choice for HMI applications in marine environments.

GENIUS 7G features a wide 7" TFT (16:9) high brightness glass display with LED backlight and full vector graphic capabilities. Designed for harsh environments, the new display has a true glass touch screen with Anti-Reflective glass surface treatment. This durable touch screen guarantees high brightness and very high contrast, therefore it is perfect in unfavourable conditions and in marine environments.

More than 150 communication drivers and multilanguage applications management .

Vector graphics capabilities with native support of SVG graphic objects and transparency management.

Remote monitoring and control. Client-Server functionality.

Optional plug-in modules for fieldbus systems, networks I/O and controllers.

Alarms and alarm history list. Alarm and alarm history can be printed or transferred to an host computer.

Available features:

- High Bright 7" TFT colour display in glass, LED backlight
- 800x480 pixel (WVGA) resolution, 64K colours
- 128 Mbyte Flash Disk
- 256 Mbyte DDR
- Projective Capacitive touchscreen
- 2 x Ethernet interface with switch function
- 2 x USB Host port
- Connection to bus systems using optional plug-in modules
- Slim design.

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GENIUS 7G display

Display

Type:	TFT
Resolution:	800 x 480 WVGA
Active display area:	7" diagonal
Colors:	64K
Backlight:	White LED
Brightness:	400 cd/mq typ.
Dimming:	Yes

Memory

User Memory:	128 MB flash
Memory Card:	SD card slot
RAM:	256MB DDR

Front panel

Touch screen:	True glass Projective Capacitive
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Interfaces

Ethernet port:	2 10/100 Mbit with integrated switch
USB port:	2 Host interface (version 2.0; version 1.1 and 2.0)
Serial port 1:	RS-232/422/485 configurable
Expansion slot:	2 Plugin slot Expansion

Functionality

Vector graphics:	Yes, includes SVG support
Multilanguage:	Yes, with runtime language switching
Multiple driver communication:	Yes
Data acquisition and trends:	Yes. Flash memory storage limited only by available memory.
Recipe memory:	Yes. Flash memory storage limited only by available memory.
Users and passwords:	Yes
Alarms:	Yes
Event List:	Yes
Hardware RTC:	Yes with batterie back-up
Screen saver:	Yes
Buzzer:	Yes, audible feedback for touchscreen

Ratings

Power supply voltage:	9 ÷ 32 Vdc
Current consumption:	0.7A at 24 Vdc (max)
Fuses Number:	Automatic
Battery:	Rechargeable Lithium battery, not user-replaceable

Environmental conditions

Operational temperature:	-20 ÷ 60 °C (vertical installation mounting)
Storage temperature:	-40 ÷ 85 °C
Operative and storage humidity (RH%):	5 ÷ 85% relative humidity non-condensing
Protection class:	IP69K (front panel), IP20 (rear)

Dimensions

Faceplate:	187 x 147 mm
Cutout:	176 x 136 mm
Weight:	Approx. 1.0 Kg
Mounting depth :	47 + 8 mm

Approvals

CE:	Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments
DNV:	Type Approval Certificate

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