

**SPECIFICATIONS OF AUTOPILOT
NAVpilot-700**

1 CONTROL UNIT

1.1	Display	Monochrome dot matrix LCD
1.2	Effective display area	85.2 x 85.2 mm (160 x 160 dot)
1.3	Backlight	8 steps
1.4	Contrast	16 steps
1.5	Useable set	6 sets

2 PROCESSOR UNIT

2.1	Rudder mode	STBY, Auto, Dodge, Remote, Advanced auto*, Navigation*, Wind*, Fish hunter*
2.2	Weather mode	FULL-AUTO/SEMI-AUTO/MANUAL-CALM/MANUAL-MODERATE/MANUAL-ROUGH
2.3	Weather	AUTO/0-10 (Manual)
2.4	Rudder gain	AUTO/1-20 (Manual)
2.5	Counter rudder	AUTO/0-20 (Manual)
2.6	Trim gain	AUTO/1-20 (Manual)
2.7	Course change speed	1-10 deg/s
2.8	Rudder angle settings	10-45 deg
2.9	Alarm	Heading deviation, Cross-track error, Ship's speed*, Depth*, Water temperature*, Log trip*, Watch, Timer *: external data required
2.10	Motor/ Solenoid drive	25A continuous, 50A for 5 seconds
2.11	Clutch/ Bypass drive	3A

3 INTERFACE

3.1	Number of port	
	NMEA0183	2 ports
	CAN bus	1 port
	Relay contact output	2 ports, alarm and status, 30V max., 3A max.
	Contact signal input	2 ports, event switch control
	USB	1 port, for maintenance only
3.2	Data sentences	NMEA 0183 Ver1.5/2.0/3.0
	Input	AAM, APB, BOD, BWC, BWR, DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, ROT, RMB, RMC, THS, TLL, VHW, VTG, VWR, VWT, XTE, ZDA
	Output	DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MTW, MWV, RMB, RMC, ROT, RSA, VHW, VTG, VWR, VWT, ZDA
3.3	CAN bus PGN (NMEA2000)	
	Input	059392/904,060928,061184,126208/464/720/992/996,

Output 127250/251/258/488/489,128259/267,
 129025/026/029/033/283/284/285,
 130306/310/311/312/313/314/577/880
 059392/904,060928,061184,126208/464/720/992/996,
 127245/250/251/258,128259/267,
 129025/026/029/033/283/284/285, 130306/310/311/312/822/823

4 POWER SUPPLY

12-24 VDC: 4-2 A (control unit: 6 sets)

5 ENVIRONMENTAL CONDITION

- 5.1 Ambient temperature -15°C to +55°C
- 5.2 Relative humidity 95% at 40°C
- 5.3 Degree of protection
 - Control unit IP56
 - Processor unit IP20
 - Rudder reference unit IPX5
- 5.4 Vibration IEC 60945

6 UNIT COLOR

- 6.1 Control/processor unit N2.5
- 6.2 Remote controller N3.0 (FAP-5552/6232), N1.5 (FAP-6212/6222)
- 6.3 Rudder reference unit N1.5
- 6.4 Junction box N3.0