

SPECIFICATIONS OF AUTOPILOT NAVpilot-711C

1 CONTROL UNIT

1.1 FAP-7011C

Display	4.1-inch TFT color LCD
Effective display area	82.56 x 61.92 mm, QVGA (320 x 240 dot)
Backlight	8 steps
Brilliance	700 cd/m ² typical

1.2 FAP-7001 (option)

Display	3.8-inch monochrome dot matrix LCD
Effective display area	85.2 x 43.6 mm (160 x 80 dot)
Backlight	8 steps
Contrast	16 steps

2 PROCESSOR UNIT

2.1 Steering mode	STBY, Auto, Dodge, Turn, Remote, Advanced auto*, Navigation*, Wind*, FishHunter TM *
2.2 Weather mode	AUTO, MANUAL-CALM/ MODERATE/ ROUGH
2.3 Rudder gain	AUTO/1-20 (Manual)
2.4 Counter rudder	AUTO/0-20 (Manual)
2.5 Trim gain	AUTO/1-20 (Manual)
2.6 Course change speed	1-30 deg/s
2.7 Rudder angle settings	10-45 deg
2.8 Alarm	Heading deviation, Cross-track error*, Ship's speed*, Depth*, Water temperature*, Wind*, Watch, Log trip*
2.9 Motor/ Solenoid drive	25A continuous, 50A for 5 seconds
2.10 Clutch/ Bypass drive	3A

*: external data required

3 IPS INTERFACE UNIT (OPTION)

3.1 Control system	EVC system
3.2 Steering mode	Auto, Manual, Dodge, Turn, Remote, Advanced auto*, Navigation*, Wind*, FishHunter TM *, Override (*: external data required)
3.3 Rudder function	Weather status, Rudder angle, Rudder gain, Trim gain, Course change speed (setting range: same as processor unit)

4 INTERFACE

4.1 Number of port	
NMEA0183	2 ports (includes the port for IPS interface unit)
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
4.2	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
4.3	CAN bus PGN (NMEA2000)	
	Input	059392/904,060928,061184,126208/720/992/996, 127250/251/258/488/489,128259/267, 129025/026/029/033/283/284/285, 130306/310/311/312/313/314/577/880/818/821/827
	Output	059392/904,060928,061184,126208/464/720/992/996, 127237/245/250/251/258,128259/267, 129025/026/029/033/283/284/285, 130306/310/311/312/822/823/827

5 POWER SUPPLY

5.1	Processor unit (w/ control units)	12-24 VDC: 4.0-2.0 A (control unit: 6 sets)
5.2	IPS interface unit	12-24 VDC: 0.4-0.2 A

6 ENVIRONMENTAL CONDITION

6.1	Ambient temperature	-15°C to +55°C
6.2	Relative humidity	95% or less at 40°C
6.3	Degree of protection	
	Control unit	IP56
	Processor unit	IP20
	Rudder reference unit/ IPS I/F	IPX5
6.4	Vibration	IEC 60945 Ed.4

7 UNIT COLOR

7.1	Control/processor unit	N2.5
7.2	Remote controller	N3.0 (FAP-5552/6232), N1.5 (FAP-6212/6222)
7.3	Rudder reference unit	N1.5
7.4	Junction box/ IPS I/F	N3.0