

FURUNO

MODEL **FA-40/70**
AIS RECEIVER/CLASS B+ TRANSCEIVER



FA-40 AIS Receiver
FA-70 Class-B+ AIS Transceiver



www.furuno.com



NMEA2000
Certified

MODEL **FA-40**
AIS RECEIVER/CLASS B

KEY FEATURES:

- **Silent Mode with optional ON/OFF switch**
- **Compact and light with wider range and faster transmit performance***
- **Internal VHF splitter eliminates need for separate antenna***
- **Switchable SO-TDMA and CS-TDMA***
- **NMEA2000 port, 2x NMEA0183 ports and a USB (micro B) port**
- **Initial setup can be done through the NMEA2000 network (TZT2/TZT3)**

*FA-70 ONLY

The FA-40/70 AIS receives the vessel's position and other useful information from Class-B+ AIS that transmits your vessel's position at faster rates than typical Class B units. This guarantees an AIS time slot allocation,

SUPERBLY ACCURATE INFORMATION EXCHANGE

MODEL	DYNAMIC DATA	STATIC DATA	VOYAGE RELATED DATA
FA-40 INFORMATION TO BE RECEIVED	<ul style="list-style-type: none"> • Ship's position • Coordinated Universal Time (UTC) • Course Over Ground (COG) • Speed Over Ground (SOG) • Rate Of Turn (ROT) • Heading • Navigation status 	<ul style="list-style-type: none"> • MMSI (Maritime Mobile Service Identity) • IMO number • Ship's name • Ship's type • Call sign • Length and beam • Location of position-fixing antenna on ship 	<ul style="list-style-type: none"> • Ship's draft • Hazardous cargo • Destination and ETA
FA-70 INFORMATION TO BE RECEIVED AND TRANSMITTED	<ul style="list-style-type: none"> • Ship's position • Coordinated Universal Time (UTC) • Course Over Ground (COG) • Speed Over Ground (SOG) • Rate of Turn (ROT)* • Heading 	<ul style="list-style-type: none"> • MMSI (Maritime Mobile Service Identity) • IMO number • Ship's name • Ship's type • Cargo • Call sign • Length and beam • Location of position-fixing antenna on ship 	

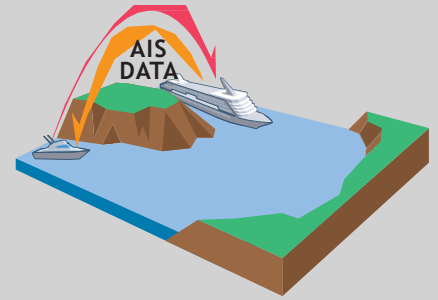
*If transmitted by remote AIS

VHF/AIS

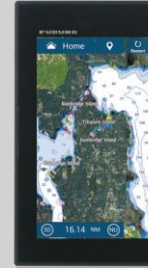
PC
(testing and setup only)



The Automatic Identification System (AIS) improves the safety level of boating by exchanging information about the status of your ship with other AIS-equipped craft nearby.



Simply tap on an AIS target to reveal critical information: Ship's name, COG, SOG, CPA, TCPA, Range and Bearing.

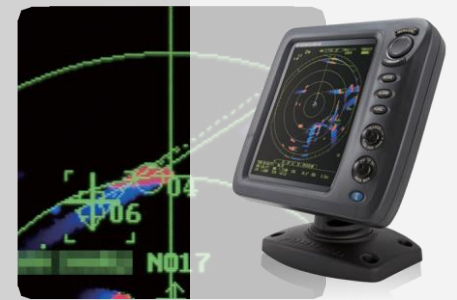


MMSI	000000000
COG	266.4 °M
SOG	10.1 kn
Range	0.934 NM
Bearing	345.2 °
CPA	614 yds
TCPA	2.42s
Last Update	0'42s
New Point	
CPA	50%
Info	



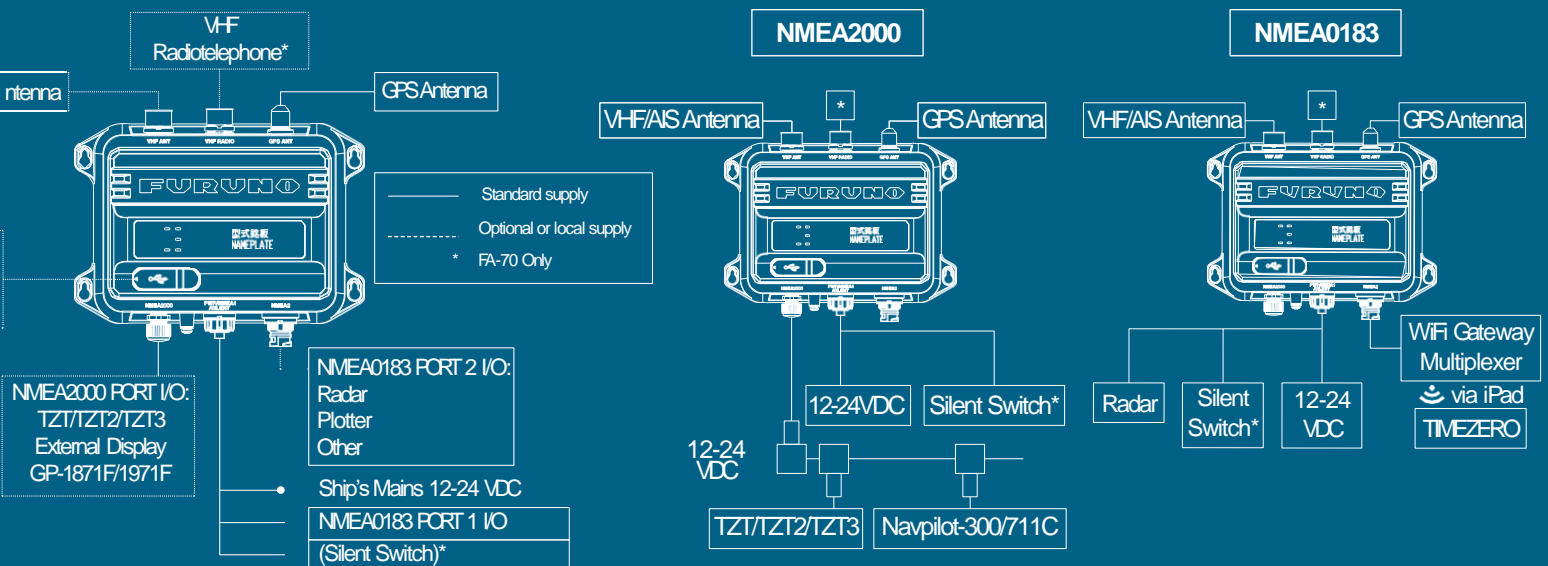
CLASS B+ TRANSCEIVER

AIS targets are fully visible and predictable when interfacing with a compatible Furuno Radar



... name, call sign, position, COG, SOG, ... surrounding vessels. The FA-70 is a ... vessel information at higher power & ... bits for added awareness. SO-TDMA ... making you visible in congested waters.

AND SIMPLE SETUP WITH NMEA2000/NMEA0183



MODEL	AIS RECEIVER		CLASS-B+ AIS TRANSCEIVER	
	FA-40		FA-70	
STANDARDS				
		EN 303 413 V1.1.1, EN 301 843-1 V2.2.1 IEC 60945 Ed.4+CORR.1 IMO MSC.140 (76) ITU-R M.1371-5 IEC 62368-1 Ed.3		
		DSC: ITU-R M.825-3 IEC 62287-1 Ed.3.0, IEC 62287-2 Ed.2.0, IEC 62311 Ed.1+Ed.2		
TRANSPONDER UNIT				
TX/RX Frequency (FA-40/70: RX Frequency)				
Output Power	FA-40 Receive Only	Selectable: 5W or 1W (SO-TDMA), 2W (CS-TDMA)		
Channel Spacing	25 kHz			
GPS RECEIVER				
Receiving Channels	12 channels, SBAS 2 channels, 14 satellites tracking			
Rx Frequency	1575.42 MHz			
Rx Code	C/A code			
Position Accuracy	13 m (2 drms, HDOP <= 4)			
INTERFACE				
NMEA0183	Input - 2 Ports	ACA, ACK, AIQ, DTM, GBS, GGA, GLL, GNS, HDT, OSD, RMC, SSD, THS, VBW, VSD, VTG	ABM*, ACK, AIQ, BBM*, HDT, SSD, THS, VSD *(ABM, BBM: SO-TDMA only)	
	Output - 2 Ports	ABK, ACA, ACS, ALR, GGA, GLL, RMC, SSD, TXT, VDM, VDO, VER, VSD, VTG		
NMEA2000	Input - 1 Port	059392, 059904, 060160, 060416, 060928, 065240, 126208, 127250		
	Output - 1 Port	059392, 059904, 060928, 126208, 126464, 126992, 126993, 126996, 126998, 127258, 129025, 129026, 129029, 129038, 129039, 129040, 129041, 129540, 129792, 129793, 129794, 129795 ¹ , 129796, 129797, 129798, 129800 ² , 129801, 129802, 129803, 129804 ¹ , 129805, 129806, 129807, 129809, 129810, 129811, 129812 ¹ , 129813 ³ ¹ (FA-40/FA-70: SO-TDMA mode only) ² (FA-40: SO-TDMA mode only), ³ (FA-70: SO-TDMA mode only)		
ENVIRONMENT				
Temperature	Antenna Unit	-25°C to +70°C		
	Other Units	-15°C to +55°C	-15°C to +55°C	
Waterproofing	Antenna Unit	IP56		
	Other Units	IP55		
POWER SUPPLY				
Transponder Unit (FA-40: Receiver Unit)	12-24 VDC, 0.3-0.2 A		12-24 VDC, 1.8-0.9 A	
UNIT DIAGRAMS				
<p>FA-40 AIS Receiver Unit 0.45 kg (1.0 lbs)</p>		<p>FA-70 Transceiver Unit 0.52 kg (1.1 lbs)</p>		
Catalog No. 1-A-20033LB CA000001428				
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE				
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