

JRC

DOPPLER CURRENT METER JLN-628

Quick acquisition of tidal current and fishfinding information.
Improved functions and features, with space saving design support efficient fishing operations.



Japan Radio Co., Ltd.

Quick acquisition of tidal and fishfinding information

A current drift and set is displayed on own ship's trail*¹ to observe a wide range of tidal currents. Own ship's drift can be grasped at a glance. Rips between two different currents can also easily found on the graphic display of current, water depth and temperature*² changes with time.

*¹ GPS lat/long data or bearing sensor input is required. *² Water temperature data input is required.

Features

1. Four-directional Fish Echoes Multi-display CRT

You can view fish echoes in four-directional, two-directional ahead, or in any one-directional mode. This feature enables easy tracking of fish. Just as in an ordinary fishfinder, you can suit the display to the fish type or sea conditions by adjusting the sensitivity.

2. Simultaneous Display of Fish Echoes and Tidal Current

You can check the tidal current while displaying fish echoes.

3. Simultaneous Display of Current Directions and Ship Speed

- Three layers (top, middle, bottom) of absolute tidal currents can be displayed at the same time. You can select the depth of each layer.
- Constant display of ground speed, depth, and trip distance.
- The relative current (relative to the C layer (lowest layer)) and the absolute current (relative to the sea bottom) can be displayed at the same time. Use this feature as a source of information for safety when diving or fishing.

Display Examples

Tidal Current

Current Display 1 (graphic)

3-layer current values

Depth graph

Water temperature graph



Ship speed and course

3-layer current graphic display

Current Display 2 (numeric)

3-layer current values



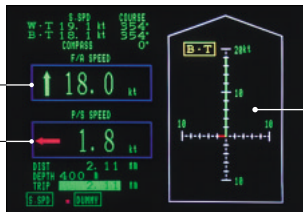
Ship speed and course

Ship Speed

Ship Speed Display

Fore/aft speed

Port/starboard speed



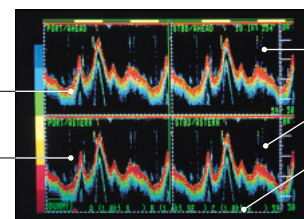
Ship speed graph

Fishfinding

Four-directional Fish Echo Display

Port-fore

Port-aft



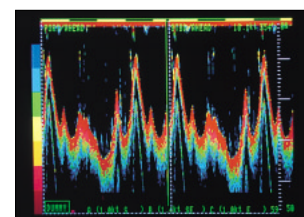
Starboard-fore

Starboard aft

Current display

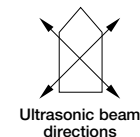
※The current information can also be displayed in simultaneous display.

Two-directional Fish Echo Display

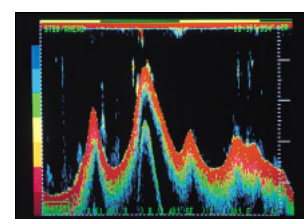


※Two directions of fore fish echoes are selectable.

One-directional Fish Echo Display



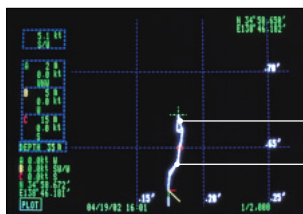
Ultrasonic beam directions



※An arbitrary direction of fish echo is selectable. Ultrasonic beam directions

Ship Trail

Ship Trail Display



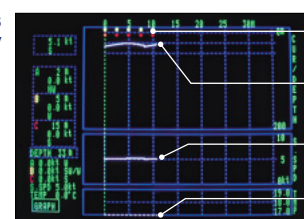
Own ship's trail

Current set and drift

※GPS lat/long data or bearing sensor input is required.

Progress

Progress Display



Current set and drift

Depth graph

Ship speed graph

Temperature graph

※Water temperature data input is required.

Quick Decision Based On Reliable Source Of Information

You can upgrade the JLN-628 to acquire more functions and display more information by connecting your other JRC and optional products.

Options

A. Absolute current display relative to GPS ship speed

Where the sea is too deep to measure the ground speed relative to the sea bottom, you can display the absolute current relative to the ship speed by connecting a GPS navigation system. When the ground speed relative to the sea bottom can be measured, the ground speed obtained from the doppler effect is used, and when the ground speed relative to the sea bottom cannot be measured, the reference switched ship speed is automatically to GPS.

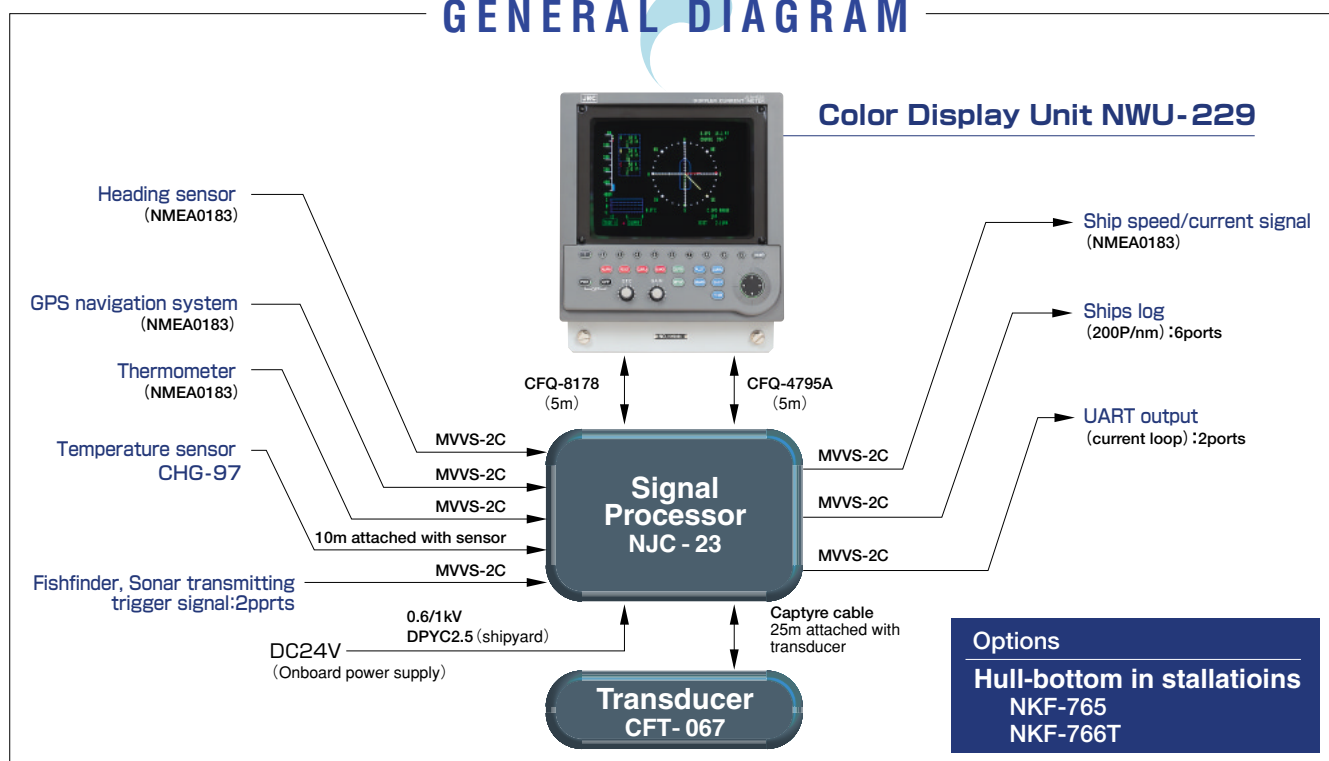
B. Stabilizing Data

It is necessary to connect a heading sensor (gyro compass or electronic compass) to stabilize the current direction on the display.

C. Water Temperature Display

You must connect either a thermometer or water temperature sensor to display the water temperature.

GENERAL DIAGRAM



Compositions

Standard Components

No.	Component	Model	Quantity	Weight	Remarks
1	Color Display Unit	NWU-229	1	13kg	
2	Signal Processor	NJC-23	1	21kg	
3	Transducer Unit	CFT-067	1	25kg	Incl. 25m cable

Options

No.	Component	Model	Quantity	Weight	Remarks
1	Hull-bottom installation materials	NFK-765	1 kit	27kg	For wooden or FRP hull bottom
2	Hull-bottom installation materials	NFK-766T	1 kit	95kg	For iron hull bottom
3					
4					

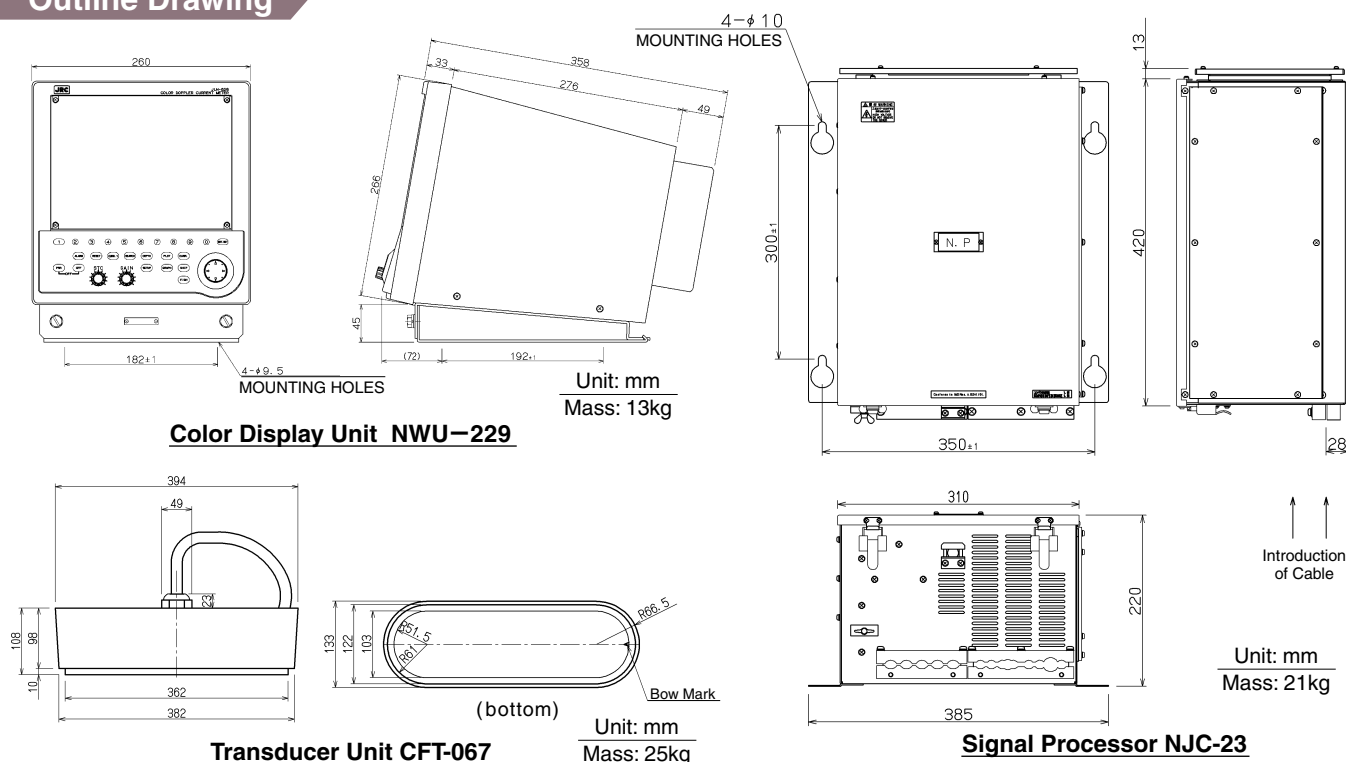


Specifications

Tidal current	
Current speed	: 0 – 9.9 kt
Current direction	: 360°, numeric and Rhumb (32 compass points) display
Measured layer	: Absolute three layers, relative two layers (three layers can be measured in relative current mode)
Measured depth	: 2 – 100m or more (70% or less of the depth) (Note) The measured depth may vary depending on sea conditions.
Depth setting	: Arbitrary at 2 – 200m
Reference	: Doppler or GPS
Ship speed	
Ahead-astern	: -10.0 – 30.0 kt
Starboard-port	: -9.9 – 9.9 kt
Bearing display	: 360°
Measured depth	: Relative to ground : 2 – 250m, relative to water : 15m deep or more (simultaneous display of depths relative to ground and water) (Note) The measured depth may vary depending on sea or sea bottom conditions.
Other	: Manual sea bottom tracking system
Display	
Display	: 10 inch color CRT
Display mode	: Tidal current, ship speed, fish school, progress and ship's trail
Numeric display	: Current direction/speed (absolute three layers, relative two layers), measured depth, ship speed relative to ground/ship course, ship speed relative to water/ship course, compass direction, distance, ahead-astern ship speed/

starboard-port ship speed, trip distance or time, depth, water temperature	
Graphic display	: Absolute tidal current vector, relative tidal current vector, ship speed vector, temperature graph, FishFinder echo display, alarm ringer
Alarm	: Current speed, ship speed, distance, timer, temperature
Input/Output Signals	
Inputs	: ① Bearing data (NMEA0183), signal name [COMPASS IN] \$ _HDT, \$ _VHW, \$ _HDM, \$ _HDG ② Latitude/longitude data (NMEA0183), signal name [GPS IN] \$ _RMC, \$ _GGA, \$ _GLL, \$ _VTG ③ Water temperature data (NMEA0183), signal name [TEMP IN] \$ _MTW ④ Interference rejection triggers, signal name [TRIG1, TRIG2]
Outputs	: ① Ship speed/current data (NMEA0183 Ver2.3/3.0), signal name [NMEA OUT] (1 port) \$VDVBW, \$VDVLW, \$VDDBT, \$VDCUR, \$VDRMC Note : Only when lat/long data \$ _RMC is entered from any external equipment, \$VDHDT: True bearing Note : Only when bearing data \$ _HDT is entered from any external equipment: ② distance-run contact signals: 200 pulses/nm Signal name [200P1 – 200P6] (6 ports) ③ JRC format signals, signal name [UART1, UART2]
Power supply	: 20V – 32.4V DC, 300VA or less
Operating temperature	: -15 to +55°C
Transmitting frequency	: 240kHz

Outline Drawing



※ Appearance and specifications may be subject to change without notice.

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Since 1915

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