

# RD 30 Operations and Information Quick Guide

Specifications: 12-24 VDC (115-60 mA), temperature range -15°C +55°C, humidity 95% @40°C, waterproofing rating IPX5, display size 120X64 dot matrix, Compass safe distances: .35m (std), .25m (steering), NMEA 0183 ver. 1.5 or 2.0 sentences, Input NMEA data is output as raw (unchanged) information

**NOTES:**

- 1) **Display all available received NMEA information, press the [ \* ] key to display and scroll through**
- 2) Data is processed at up to 430 characters/per second, delays will occur at higher rates
- 3) NMEA sentence maximum number is up to eight (8) per port
- 4) Data loss may occur if [BOTH] is selected under the [I/O] and/or [AUX] port option and input sentence(s) have an interval higher than one (1) second (example: HDT, ROT, etc.)
- 5) RD30 displays can be configured to power on automatically when "ships mains" are energized, this internal modification should only be done by an authorized Furuno dealer

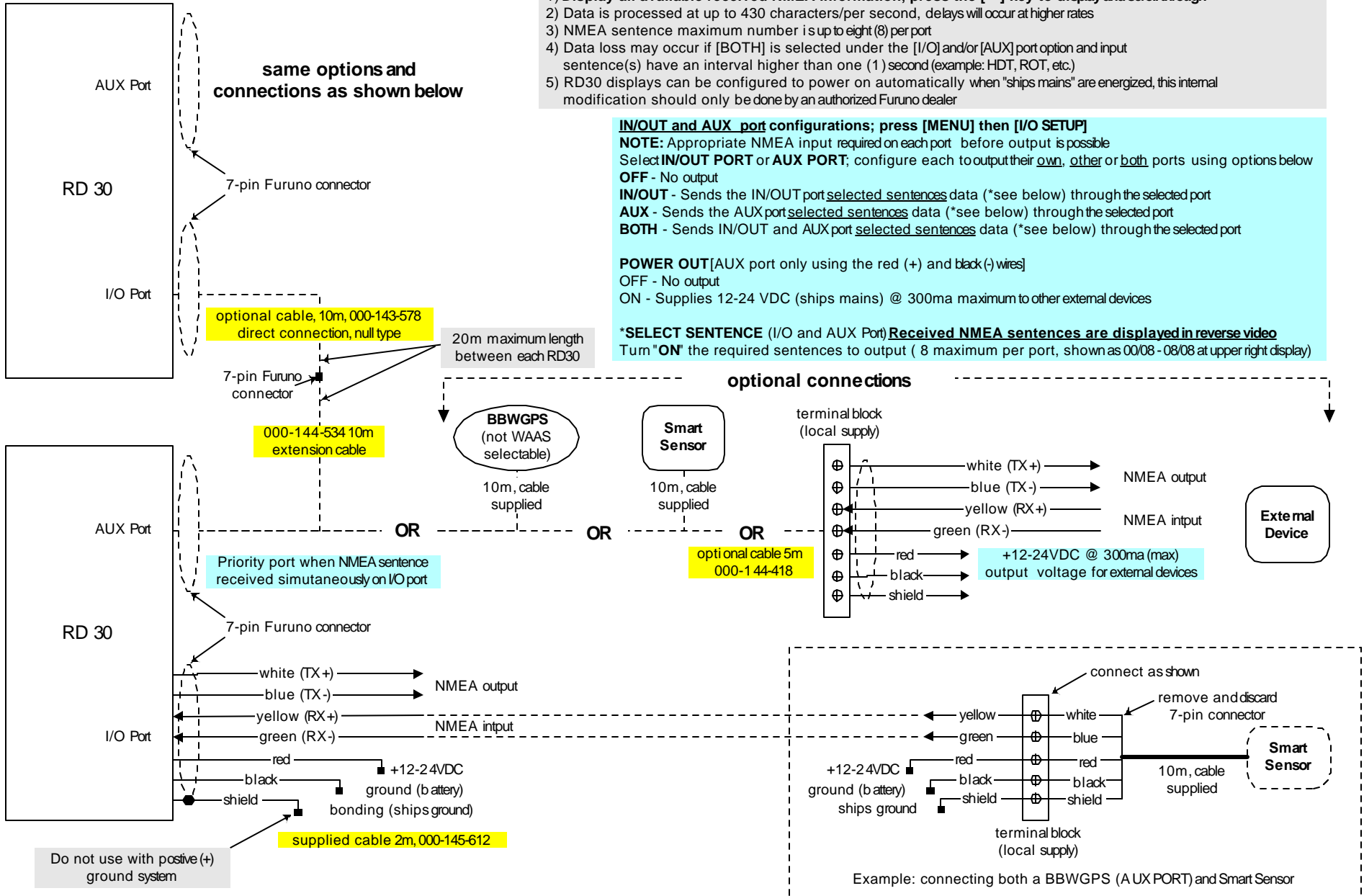
**IN/OUT and AUX port configurations; press [MENU] then [I/O SETUP]**

**NOTE:** Appropriate NMEA input required on each port before output is possible  
 Select **IN/OUT PORT** or **AUX PORT**; configure each to output their own, other or both ports using options below  
**OFF** - No output  
**IN/OUT** - Sends the IN/OUT port selected sentences data (\*see below) through the selected port  
**AUX** - Sends the AUX port selected sentences data (\*see below) through the selected port  
**BOTH** - Sends IN/OUT and AUX port selected sentences data (\*see below) through the selected port

**POWER OUT** [AUX port only using the red (+) and black (-) wires]

**OFF** - No output  
**ON** - Supplies 12-24 VDC (ships mains) @ 300ma maximum to other external devices

**\*SELECT SENTENCE** (I/O and AUX Port) **Received NMEA sentences are displayed in reverse video**  
 Turn **"ON"** the required sentences to output ( 8 maximum per port, shown as 00/08 - 08/08 at upper right display)



**optional connection**

(MENU) — USER DISP  
 1: DIGITAL  
 2: DIGITAL  
 3: DIGITAL  
 4: DIGITAL  
 Options 2-5 same as 1

Defaults shown in **bold text**

# RD 30 MENU TREE

DIGITAL (Data Available: NONE, TEMP, POSN, HDG, ODO, CUR, HUM, SOG, DEPTH, TIME, WPT, ROT, XTE, POWER, PRE, STW, WIND, COG, TRIP, TD, TIMER, A-TEMP; Screen division options:     )

- GRAPH — TEMP — BASE POINT (-99°F - +999°F, **+50°F**)
- RANGE (1°F-900°F, **10°F**)
- PERIOD (**5**, 30 min; 1, 3, 6, 12 h)
- DEPTH — START FROM (0-9998, **+0 ft**)
- MAX. RANGE (1-9999, **300 ft**)
- PERIOD (**5**, 30 min; 1, 3, 6, 12 h)
- SOG — START FROM (0-998, **+0 kt**)
- MAX. RANGE (1-999, **30 kt**)
- PERIOD (**5**, 30 min; 1, 3, 6, 12 h)
- STW — START FROM (0-998, **+0 kt**)
- MAX. RANGE (1-999, **30 kt**)
- PERIOD (**5**, 30 min; 1, 3, 6, 12 h)
- WIND — START FROM (0-998, **+0 kt**)
- MAX. RANGE (1-999, **20 kt**)
- PERIOD (**5**, 30 min, 1, 3, 6, 12 h)
- CURRENT — START FROM (0-998, **+0 kt**)
- MAX. RANGE (1-999, **10 kt**)
- PERIOD (**5**, 30 min, 1, 3, 6, 12 h)
- PRESSURE — START FROM (0800-1199, **0 hpa**)
- MAX. RANGE (0801-1200, **1200 hpa**)
- PERIOD (**5**, 30 min, 1, 3, 6, 12, 24, 48, 72, 120, **5 min**)
- GRAPHIC — SPDMETER — START FROM (-99.0 - +99.0, **+0**)
- INTERVAL (1-99, **10**)
- TEMP — START FROM (-99.0 - +99.0, **+0**)
- INTERVAL (1-99, **10**)
- WIND
- COMPASS
- CURRENT
- SPD (SOG)
- SPD (STW)
- ROT (**30°**, 60°, 90°/min)

- ALARM1 — HIGHWAY
- BUZZ (SHORT, **LONG**, CONTIN.)
- SPEED (**OFF**, **30.0 kt**, LOW, HIGH, INSDE, OUTSD)
- TEMP (**OFF**, **+32.00°F**, LOW, HIGH, INSDE, OUTSD, SHEAR)
- DEPTH (**OFF**, **0.0 ft**, LOW, HIGH, INSDE, OUTSD)

- ALARM2 — ARV/ANC (ARV, ANC, **OFF**, **0.50 nm**)
- XTE (**OFF**, **0.25 nm**, ON)
- TRIP (**OFF**, **0 nm**, ON)
- ODOMETER (**OFF**, **0 nm**, ON)
- TIME (**OFF**, **00:00**, ON)
- COUNTDOWN (**OFF**, ON, **5 min**, 10 min, 15 min)

MESSAGES (Message board)

- RESET — TRIP?
- ODOMETER?
- GRAPH?
- ALL BACKUP DATA? — ALL?
- USER DISP1?
- USER DISP2?
- USER DISP3?
- USER DISP4?
- USER DISP5?

\*= APB, BWC, BWR, DBK, DBS, DBT, DPT, GGA, GLC, GLL, GTD, HDT, HDG, HDM, MDA, MTW, MWV, RMB, RMC, VBW, VDR, VHM, VTG, VWR, VWV, XTE, ZDA

- OFFSETS — TIME DIFF (-13:30 - +13:30, **+00:00**)
- SPEED(SOG) (-99.9 - +99.9, **+0.0 kt**)
- SPEED(STW) (-99.9 - +99.9, **+0.0 kt**)
- TEMP (-99.9°F - +99.9°F, **+0.00° F**)
- DEPTH (-999.9 - +999.9, **+0.0 ft**)
- WND DIRECT (-179.9° - +179.9°, **+0.0°**)
- WND SPEED (-99.9 - +99.9, **+0.0 kt**)

- SYS SETUP — TIME DISP (12 HOUR, **24 HOUR**)
- BRG READ (**MAGNETIC**, TRUE)
- MAG VAR. ( **AUTO**, MANUAL)
- SIMULATOR ( **OFF**, ON)
- TEST?
- EXCHANGE BATTERY?

- I/O SETUP — IN/OUT PORT ( **OFF**, IN/OUT, AUX, BOTH)
- AUX PORT ( **OFF**, IN/OUT, AUX, BOTH)
- POWER OUT ( **OFF**, ON)
- IN/OUT PORT ] **See \* for data sentences**
- AUX PORT ]

- TD SETUP — DISPLAY( **XX.XXX'**, XX'XX.X" LORAN C TD, LORAN A TD)
- LORAN C (Set GRI and station pair. **Default: 7980-23-43**)
- ?TD1, ?TD2 (-99.9 - +99.9, **+00.0**)
- DECCA ( **Default: 25-G-P** (Skagerrak))
- ?TD1, ?TD2 (-9.99 - +9.99, **+0.00**)
- LORAN A (Set Loran A chair/ station pair. **Default: 2S3-2S4**)
- ?TD1, ?TD2 (-99.9 - +99.9, **+00.0**)

LANGUAGE — **ENGLISH**, Others

- UNITS — TEMP (°C, ° F) ( **XX.XX**, XX.X)
- DIST/SPD ( **NM**, **KT**; KM, KM/H; SM, MPH)
- DEPTH (M, **FT**, FA, PB)
- WIND SPD ( **KT**, KM/H, MPH, M/S)
- WIND ( **OFF**, 1, 5, 10 min)
- ( **TRUE**, APP)

- HDG SETUP — CALIBRATION (YES, **NO**)
- OFFSET (-90 to +90, **0**)
- DAMPING (0 to 3, **1**) (C-2000)