

INSTALLATION MANUAL NBDP TERMINAL DP-6

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"WARNING" and "CAUTION" notices appear throughout this manual. It is the responsibility of the installer of the equipment to read, understand and follow these notices. If you have any questions regarding these safety instructions, please contact a FURUNO agent or dealer.

The level of risk appearing in the notices is defined as follows:



A WARNING



Do not work inside the equipment unless totally familiar with electrical circuits.

Hazardous voltage which can shock, burn or cause serious injury exists inside the equipment.



Turn off the power at the mains switchboard before beginning the installation. Post a sign near the switch to indicate it should not be turned on while the equipment is being installed.

Fire, electrical shock or serious injury can result if the power is left on or is applied while the equipment is being installed.



Ground the equipment to prevent electrical shock and mutual interference.

Confirm that the power supply voltage is compatible with the voltage rating of the equipment.

Connection to the wrong power supply can cause fire or equipment damage. The voltage rating appears on the label at the rear of the display unit.

Use the correct fuse.

Use of a wrong fuse can cause fire or equipment damage.

Keep the following compass safe distances.

	Standard	Steering
Main U <mark>nit</mark>	1.2 m	0.9 m
Terminal Unit	1.4 m	1.0 m
Printer	1.0 m	0.8 m

1. System Configuration



2. Equipment Lists

Standard Set

	Name	Туре	Qty	Mass(kg)	Remarks
1	Main Unit	DP-6	1	4.5	
2	Terminal Unit	IB-581	1	6.0	w/Inst. materials CP16-01150 (See page 4a.)
3	Installation Materials	CP05-07400	1		See page 3.

Optional Equipment

	Name	Туре	Mass(kg)	Remarks
1	Printer	PP-510	3.6	w/Installation materials (See page 4b.) and Accessories FP16-00100 (See page 5.)
2	Rectifier	PR-62	3.0	For AC mains

	'URUI		ODE NO.	000-055-404	1	05DQ-X-9401 -2	
		IT IT	YPE	CP05-07400			1/1
	·事材料表	DP-6 狭	带域直接印刷 DP TERMINA	列電信装置			
					教書		-
NO.	NAME	OUTLINE	DESC	B/ 79116 RIPTIONS	Q' TY	用述/開考 REMARKS	
1	7-2板 COPPER STRAP		05-003-00 CODE NO.	31–0 590–300–310	1		
2	ナヘッタッヒッンキシュ TAPPING SCREW		5X25 SUS3	04 000-867-553	4		
3	ミガキ平産金 FLAT WASHER	* 10	M5 SUS304 Code No.	000-864-128	4	$\overline{)}$	
4	コネクタ CONNECTOR	54	17JE-2325	0-02 (D <mark>8C</mark>) 000-120-946	2		
5	電源ケープルDC用 POWER CABLE (FOR DC MAINS)	EDERE (*3M	VCTFO. 75X	2C *3 M *	1		
6	コネクタ CONNECTOR	◆Z5	SRCN6A16-	10P 000-508-663	1		

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(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

IB-581(DP-6)

OUTLINE	DESCRIPTION/CODE No.	Q' TY
300	IB-581-02-2. 5GY	
165 300		
	0 UTLINE	0 U T L I N E DESCRIPTION/CODE Na.

付鳳品 ACCESSORIES

רס-צ' -ד' אגי FLOPPY DISK	97 	MF-256HD 000-115-862	1
≥=‡-*'-+' MINI KEYBOARD	151	BTC-5100C PS/2 004-442-400	1
フロッピーディスク(書き込品) FLOPPY DISK	97 	05-501-891	1



コード番号末尾の[キキ]は、共通機種の代表コード番号を表します。 C5610-Z01-_D CODE NUMBER ENDED BY ゙キギ INDICATES THE NUMBER OF TYPIC AL MODEL. 注記)

	URUP		CODE NO.	000-043-259		16AF-X-9410 -0
			TYPE	CP16-01150		1/1
I	事材料表	IB-581	9-2742291	L		
INST	ALLATION MATERIALS		TERMINAL UNIT	ſ		
풀 号 NO.	名称 NAME	略 図 OUTLINE	型: DESC	名/規格 RIPTIONS	数量 0' TY	用途/備考 REMARKS
1	7-2線 GROUNDING WIRE		08S0087	000-108-138	1	
	電源ケーブルDC用		VCTF0. 75X	2C *3M*		
2	POWER CABLE (FOR DC MAINS)		CODE NO.	000-112-543	1	
3	7-7° #組品 CABLE	L-SM	17JE-573- 16S0068 # CODE NO.	10л-‡2 5M‡ 000-127-108	1	
4	+トラスタッヒ" ンネジ" +TAPPING SCREW	20	6X20 SUS3	04 1 種 000-802-084	4	
5	אַזָּדָ-יָל(INMAR) LABEL (INMAR)	201 @ 3	16-007-69 CODE NO.	19-0 100- <mark>217-</mark> 010	1	
6	7727-(3) HOOK LOOP FASTENER	25.4	16-007-68 CODE NO.	14-0 100-237-670	4	
7	7727-(4) HOOK LOOP FASTENER	60 - [[25.4	16-007-68 CODE NO.	100-237-680	4	
8	ハリマーク LABEL	266	16-011-58	100-248-051	1	
9	ハリマーク (C. S. D) LABEL (C. S. D)	62	16-011-58 CODE NO.	100-248-060	1	

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	URUP		ODE NO.	004-441-780		16AC-X-9420 -1
		1	ТҮРЕ	CP16-01200		1/1
INST	事材料表 ALLATION MATERIALS	PP-510 7* PR	リンター INTER	<u></u>		
番 号 NO.	名称 NAME	略 図 OUTLINE	型 DESC	名/規格 RIPTIONS	数量 0' TY	用途/備考 REMARKS
1	ハリマーク LABEL	62 (WEAR - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	16-007-69 CODE NO.	27–0 100–222–480	1	COMPASS SAFE Distance
2	プリンタ取付板(2)組品 PRINTER FIXTURE	96.8	CP16-0050 2.5GY5/1. CODE NO.	2 SPCC 5 #5-N 004-434-410	1	· · ·
3	ブリンタ取付板(1)組品 PRINTER FIXTURE	263.4	CP16-0050 2.5GY5/1.	1 SPCC 5 #5-N 004-434-400	1	$\overline{}$
4	ケーブル粗品 CABLE ASSY.		16S0184 CODE NO.	000-138-539	1	ターミナルユニット用 / FOR TERMINAL UNIT
5	電源ケープル組品 POWER CABLE ASSY.	L-Sm	16S0084 (V *5M*) CODE NO.	CTF-0. 75X3C 000-132-249	1	
6	ハリマーク(INMAR) LABEL (INMAR)	2000	16-007-69 CODE NO.	19-0 100-217-010	1	
7	+トラスタッビ"ンネジ" +TAPPING SCREW		5X20 SUS3	04 1>1 000-802-081	4	

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(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

F	URUNO		CODE NQ 000-043-258		16AC-X-9501-1
,			TYPE FP16-00100		
	付属品表	プリ PP-510	リンター		
	ACCESSORIES	PRI	NTER		
番号	名 称	·····································	型名/規格	数量	用途/備考
Na	NAME	OUTLINE	DESCRIPTIONS	Q'TY	REMARKS
	フ°リンタ用 紙	214	A2 1PLY W		
1	RECORDING PAPER			1	
		Ø128 C	CODE NQ 000-134-903		
		4			
			CODE NO.		
			CODE NQ		
				-	
			CODE NQ		
			CODE NO	-	
			CODE MU		
			CODE NO	-	
				+	
			CODE NQ	1	
			CODE NQ		
			CODE NQ		
				4	
	<u> </u>	l	CODE NQ		<u> </u>
			F		
					(1/1)
			FILDINO FIE	יע נס	

Mounting Guidelines

The main unit and terminal unit are designed for tabletop mounting. They may be installed almost anywhere provided the location satisfies the following conditions:

- The ambient temperature range is -15 to $+55^{\circ}$ C.
- For the terminal unit, select a place where the keyboard can be easily operated while viewing the display screen.
- Locate the units a sufficient distance from air conditioners, heat sources and ventilation fans.
- Water splash will most assuredly harm the sensitive components inside the units. Keep the units away from areas subject to water splash or water spray.
- Select a place where vibration is minimal.
- Leave enough space around the sides and rear of the units to permit checking and maintenance and to allow for circulation of cooling air.
- Keep the units out of direct sunlight.
- Keep the units away from magnetic fields (telephone, refrigerator, compass, etc.)

\triangle	CAUTION

Keep the following compass safe distances.

	Standard	Standard
Main Unit	1.2 m	0.9 m
Terminal Unit	1.4 m	1.0 m
Printer	1.0 m	0.8 m

Main Unit

Fix the unit with four tapping screws, referring to the outline drawing on page D-1.

Leave at least 100 mm at the sides and at least 150 mm at the rear to permit easy checking and maintenance.

Terminal Unit

- 1. Fix the hanger to the table with four tapping screws, referring to outline drawing on page D-2.
- 2. Attach connectors to bottom panel. (See next page)
- 3. Set the terminal unit to the hanger with two knobs.
- 4. Adjust the display screen so it can be easily viewed and tighten knobs.

Leave at least 80 mm at the sides and rear to permit the checking and maintenance.

Keyboard

- 1. Attach the four "hook loop fasteners 3" (small ones) to the bottom of the keyboard.
- 2. Attach the four "hook loop fasteners 4" (large ones) to the "hook loop fasteners 3" attached to the keyboard bottom.
- 3. Remove seals from the "hook loop fasteners 4".
- 4. Set the keyboard on the mounting location and press down firmly.

Printer

Fix the printer to mounting location with two printer fixtures (supplied).





*1 : Attach connectors in field.

*2 : Attach connectors before fixing the terminal unit to the hanger.

5. Initial Setting

Answerback Code & ID Code

Enter vessel's answerback code and ID code as follows.

The answerback and ID code number can be written <u>only once</u> ; be sure to enter the codes correctly. Answerback Code Procedure 1. Press function key F5 and then the [5] key. The display should look something like below. Answerback Code Entry Answerback Code Entry Answerback Code Entry Screen Answerback Code Entry Screen C. Enter vessel's answerback code (max. 20 characters, including spaces). Press the ENTER key. The prompt OK/CANCEL asks for verification of data. If correct, press the ENTER key again. Example Answerback Code Entry Answerback Code Entry Cancel		NOTE	
Answerback Code Procedure 1. Press function key F5 and then the [5] key. The display should look something like below. Answerback Code Entry Answerback Code Entry Screen 3. Enter vessel's answerback code (max. 20 characters, including spaces). Press the ENTER key. The prompt OK/CANCEL asks for verification of data. If correct, press the ENTER key again. Example Answerback Code Image: Answerback Code Entry Cancel		he answerback and ID code number can e written <u>only once;</u> be sure to enter the odes correctly.	
Procedure 1. Press function key F5 and then the [5] key. The display should look something like below. Answerback Code Entry Answerback Code Entry Answerback Code Entry Screen 2. Enter vessel's answerback code (max. 20 characters, including spaces). Press the ENTER key. The prompt OK/CANCEL asks for verification of data. If correct, press the ENTER key again. Example Answerback Code Entry Answerback Code Entry Answerback Code Entry Cancel	An	swerback Code	
1. Press function key F5 and then the [5] key. The display should look something like below. Answerback Code Entry Answerback Code Entry Screen Answerback Code Entry Screen 2. Enter vessel's answerback code (max. 20 characters, including spaces). Press the ENTER key. The prompt OK/CANCEL asks for verification of data. If correct, press the ENTER key again. Example Answerback Code Answerback Code Example Answerback Code Cancel	Pro	ocedure	
spaces). Press the ENTER key. The prompt OK/CANCEL asks for verification of data. If correct, press the ENTER key again. Example Answerback Code Entry Answerback Code 123456789 FURU X Cancel	1. P lc	ress function key F5 and then the [5] key. bok something like below. Answerback Code Entry nswerback Code Answerback Code Entry Screen	The display should
Example Answerback Code Entry Answerback Code 123456789 FURU X Cancel	2. E sj fe	paces). Press the ENTER key. The prompt pr verification of data. If correct, press the E	t OK/CANCEL asks
Answerback Code Entry Answerback Code 123456789 FURU X Cancel	<u>Exa</u>	mple	
	Answ 1234	Answerback Code Entry- verback Code 456789 FURU X Cancel	

Caution

Confirm the 'CODE' before pressing ENTER key. You cannot change the CODE once it has been entered.

Message for confirmation of code entered

3. For final verification of the data, the above CAUTION appears. If correct, press the **ENTER** key again.

NOTE: Form of answerback depends on coast statiton. Some request ship name and/or callsingn.

ID Code

Procedure

1. Press function key **F5** and then the [6], [7], [8] or [9] key to enter the Group ID Code (4 or 5 digits), Group ID Code (9 digits), Select ID Code (4/5 digits) or Select ID Code (9 digits), respectively.

	Group ID Entry
	Group ID Code (4 or 5)
	ID Code Screen
	2. Enter group ID or select ID. Then, press the ENTER key. A prompt asks for verification of data. If correct, press the ENTER key.
	<u>Example</u>
	Group ID Entry Group ID Code (4 or 12345 Cancel
4	Caution Confirm the 'CODE' before pressing ENTER key. You cannot change the CODE once it has been entered.
	Message for confirmation of code entered

3. For final verification of the data, the above CAUTION appears. If correct, press the **ENTER** key again.

Note: Application software of DP-6 is already installed in the unit. The floppy disk programed in the accessores is for backup.

System Settings

Svstem				
Setup	Lock Change Default			
*Slave Delay *BK Timing PreTone PoseTone *Mute Timing PreBK PostBK *Modem Output Level	5 msec (0- 50 msec) 10 msec (0-100 msec) 0 msec (0- 20 msec) 0 msec (0- 20 msec) 0 msec (0- 20 msec) 0 msec (0- 20 msec) 0 dBm (-30 - +10 dBm)			
MIF Tune Freeze AGC Emission	$\begin{array}{c} \underline{OFF} & O & N \\ \underline{OFF} & O & N \end{array}$			
TX/RX MSG Save Edit Before sending	OFF ON OFF ON			
Time system Time & Data Display Mode Self Test	OFF <u>UTC</u> SMT JST 1997/3/16/ 10;00;00 <u>Normal</u> Reverse			

Press function key **F6** to display the System screen.

Procedure

To change settings, press the $[\rightarrow]$ key to display change (on the Setup line) in inverse video. Press the $[\downarrow]$ key to select item, then press the $[\rightarrow]$ or $[\leftarrow]$ key to select option.

("Default" on the Setup line is for factory use.)

Menu Description

Setup	Lock/unlocks settings.	
Slave Delay	Sets the length of the slave delay timing in the ARQ mode, between 0 - 50 msec.	
BK Timing Pre Tone	Sets the timing for the leading edge of the BK signal in the ARQ mode.	
Post Tone	Sets the timing for the trailing edge of the BK signal.	
Mute Timing Pre BK	Sets the timing for the leading edge of the mute signal in the ARQ mode.	

Post BK

Sets the timing for the trailing edge of the mute signal.

NOTE: For further details about BK timing and mute timing, see page 14.

Modem Output Level Adjusts output signal from the modem, between -30 and +10 dBm. Refer to operation's manual of radiotelephone connected. With FURUNO radiotelephone, the default setting is available.

MIF Command

Tune*	With FURUNO transmitter connected, ON sends antenna coupler tuning command.
Freeze*	With FURUNO radio equipment connected,
	ON sends "freeze" command to disable con- trols of radio equipment.
AGC*	Turn on for radio equipment which supports AGC command in the MIF format, so that the gain is automatically controlled in the telex mode.
Emission*	ON sends EM (emission) command to ra- diotelephone.
TX/RX MSG Save	An outgoing or incoming message can be saved automatically to a floppy disk.
Edit before Sending	OFF: Transmits keying operation one by
	ON: Transmits message only when the ENTER key is pressed.

*: These commands are available according to a model connected.

INFORMATION RECEIVING STATION TMING



Setting of Timing

Timing (msec)		FS-5000 series FS-8000 series FS-1562	FS-1500 series FS-1502 FS-1552	RC-258 RC-508 RC-808 RC-1208
Slave Delay BK Timing Pretone Post Tone MUTE Timing Pre BK Post BK		5 msec 10 msec 0 msec 0 msec 0 msec 0 msec	50 50 10 0 0	5 5 0 0 0
Remarks	DP-6 MIF AGC	ON (FS-1562 : OFF)	OFF	OFF
	System setting of each equipment	9982 → 1 (FS-5000/8000)	$\begin{array}{c} 9934 \rightarrow 1 \text{ (FS-1502)} \\ 9904 \rightarrow 0 \\ 9905 \rightarrow 1 \\ 9906 \rightarrow 10 \text{ms} \end{array} \text{ (FS-1552)}$	none



GO

D - 1

FURUNO ELECTRIC CO., LTD.



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S – 1





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S - 2

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