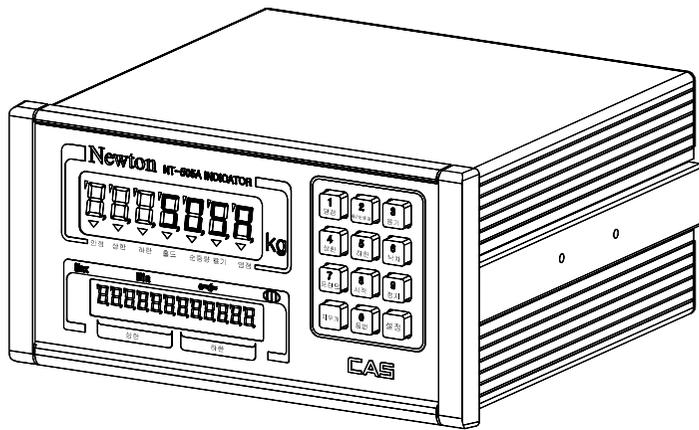

NT-501A, 502A, 505A



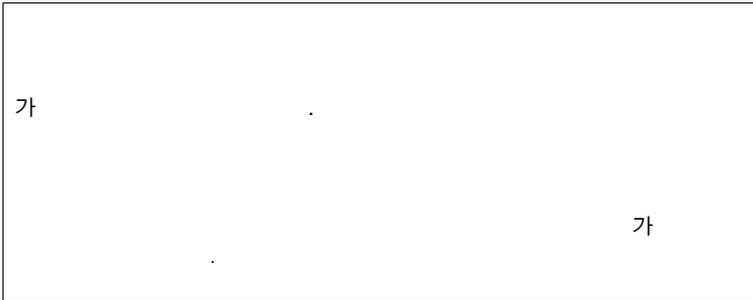
1.	.....	3
2.	.....	5
3.	.....	6
4.	.....	8
5.	(Front Panel)	9
6.	(Rear Panel)	12
7.	.....	13
8.	(RS-232C)	15
9.	(Test)	18
10.	(Calibration)	21
11.	(Set)	25
12.	(Weighing)	40
13.	(Option)	47
14.	(Sealing)	53
15.	.....	54

1.

(NT-) 가

NT-500
NT-500

가



1. , ,

2. 가

3. 가 가

4. 가

5.

6. 가 가

7. 가 가

1.

2.

3.

4. 가

5.

가

2.

(1)

- ,
- ,
-
- (FULL DIGITAL CALIBRATION)
-
- (12 VFD) : NT-505A
- RFI/EMI
- WATCHDOG ()
- WEIGHT BACK-UP ()
-

(2)

- ,
- ()
- A/D (10~50)
- 가 (Serial, Centronics parallel)
- 가
-
- (RS-232: , RS-422/RS-485:)
- PC (PC Command mode)
- /
- 4 (F44)
- 4 (, , ,) : NT-501A
- / PHOTO COUPLER NOISE
- 50 가 (Set point)
- 1 가
- Calibration 가
- , : NT-505A
-
- A/S

3.

Analog	A/D
--------	-----

Load Cell 가	DC 9V, 8 x 350Ω (L/C 8 가)
	0.05 mV ~ 20 mV
	0.6 μV/D
	0.01% F.S.
A/D	1 / 200,000
A/D	1 / 10,000 (Max.)
A/D	50 /sec

Digital

	Full Digital Calibration ()
	7 Segment 7 : 6.0(W) x 13.0(H) mm
(NT-505A)	7 Segment 12 : 3.3(W) x 8.0(H) mm
1	x 1, x 2, x 5
	"-" minus

" "	▼	가
" "	▼	On/Off (NT-501A)
" "	▼	On/Off (NT-501A)
" "	▼	
" "	▼	
" "	▼	가
" "	▼	"0"kg

--	--

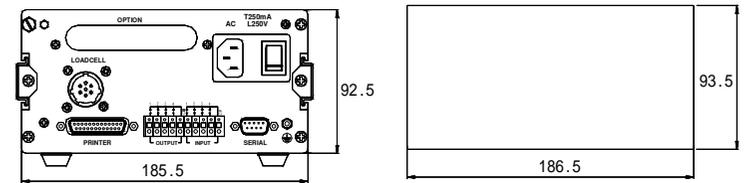
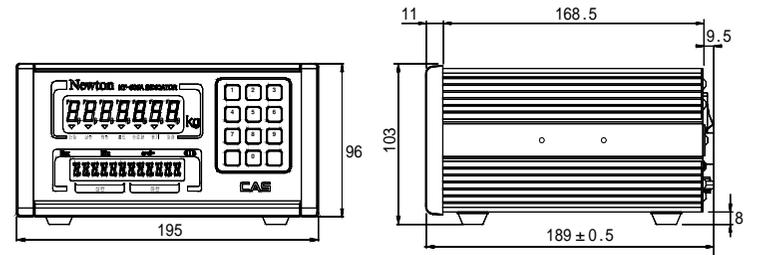
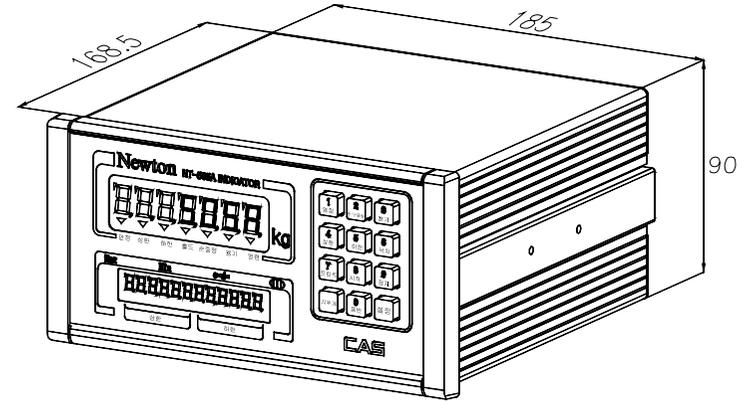
	AC 110V/220V, 50/60 Hz
	192(W) x 199(D) x 96 (H)
	-10 ~ +40
	2.5 kg
	T250mA L250V
	10W

--	--

- 1	RS422/RS485
- 2	BCD
- 3	Analog (I-out : 0~24mA, V-out : 0~10V)

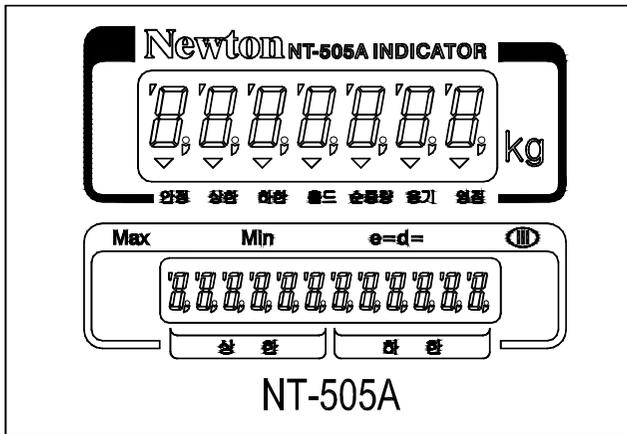
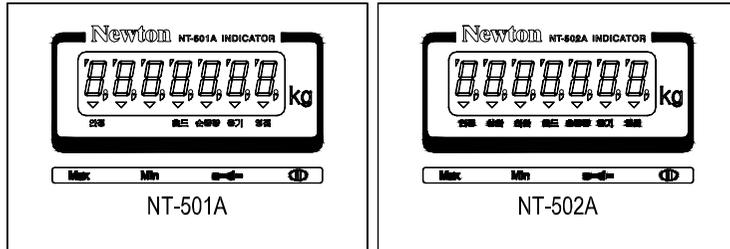
4.

단위 : mm



Cutting

5. (Front Panel)

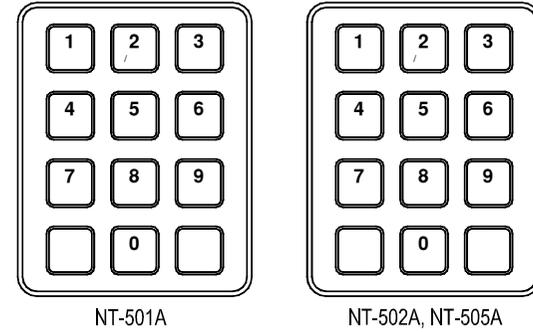


- (1) (▼)
- : 가
 - : On/Off (NT-501A)
 - : On/Off (NT-501A)
 - :
 - : 가
 - : 가
 - : "0"kg

(2) (NT-505A)

- :
- :

(3)



- 1
- (±2% ±10% , 'F10')
- 2
- 가 가 가 가
- 가 가 가 가
- 3 ()
- 4 (NT-501A)
- 5 (NT-501A)
- 6 (NT-501A)
- 7 □ 8 □ 9)

□ 7

- ()
- F31

□ 8 (8)

□ 8	NT-501A	
□ 8	NT-502A NT-505A	F13-0 : PACKER F13-1 :

□ 9 (9)

□ 9	NT-501A	
□ 9	NT-502A NT-505A	F13-0 : PACKER F13-1 :

□ 0

- (0 ~ 50)
-3 (SET-POINT)

□

- ()

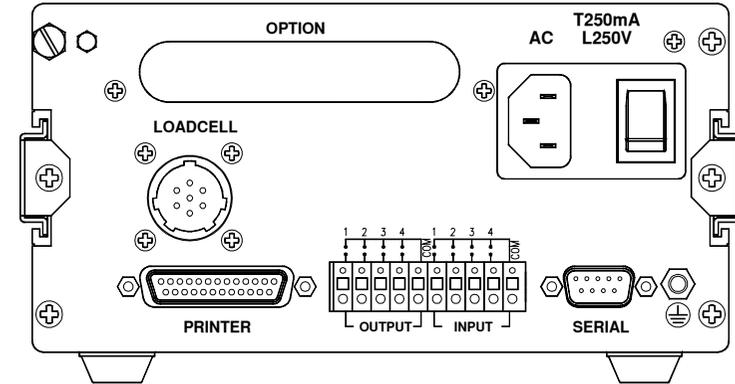
□

-

□ 0 ~ 9 ()

- (SET-POINT)

6. (Rear Panel)



□ **PRINTER :**

□ **INPUT :** (F44)

□ **OUTPUT :** (, , ,) - NT-501A

□ **SERIAL :** RS-232C RS422/RS485 (RS422/RS485 :)

□ **T250mA L250V :** (: T250mA L250V)

□ **LOADCELL :** (4 , 6)

□ **OPTION :** BCD , Analog (0~24mA 0~10V)

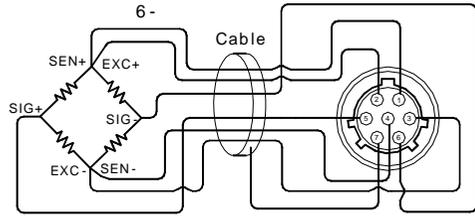
□ **POWER S/W :**

7.

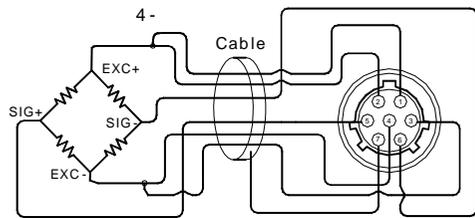
(1)

LOADCELL

*



1 (EXC+)	
2 (SEN+)	
3 (EXC-)	
4 (SEN-)	
5 (SIG+)	
6 (SIG-)	
7 (SHIELD)	



1. 4 EXC+ ,

EXC-

2.

*

9V 가	
2.4 mV	1/2,000 (Max)
4.8 mV	1/4,000 (Max)
6 mV	1/5,000 (Max)

(2) /

Multi Connector	Relay	
1		(NT-501A)
2		
3		
4		
COM	RELAY OUT-PUT COM	
1	/ /	F44
2	/ /	
3	/ / /	
4	/ , / /	
COM	KEY IN-PUT COM	

(3) AC

220V

110/220V

.

.

(4) LOAD CELL

(SW1)

DIP S/W 1 ON

, DIP S/W 2

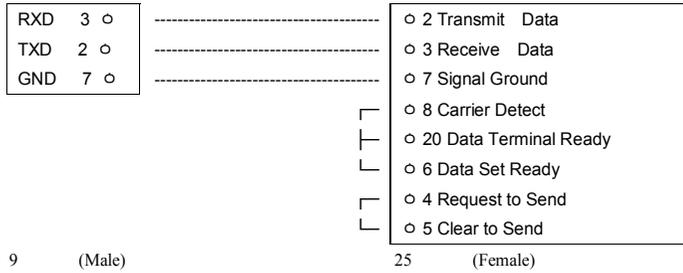
ON

8. (RS-232C)

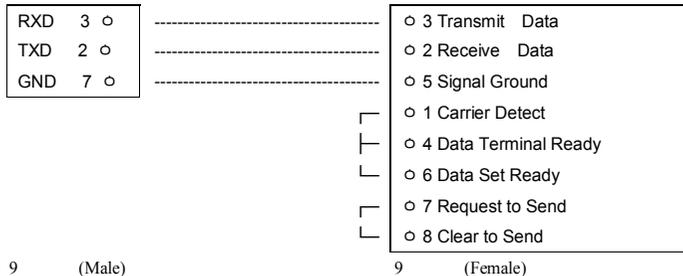
(1) RS-232C

PC

SERIAL PC



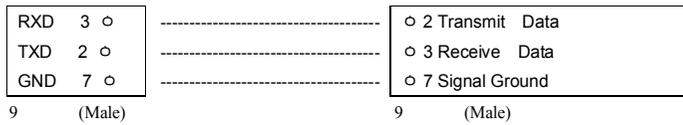
RS-232C



RS-232C

(CD-SERIES)

SERIAL PC



RS-232C

RS-232C

(2)

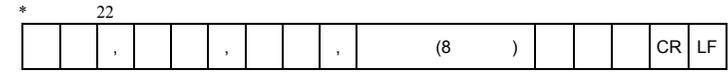
: 1200 bps - 19200 bps

: 8, : 1, : None

: 7, : 1, : /

: ASCII

가? (F22)



US() GS() byte (kg)

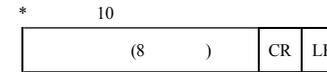
ST() NT()

OL()

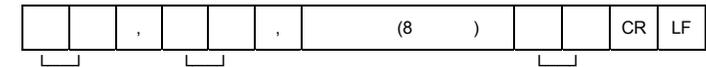
(Device ID) :

1 . (F23)

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
1		1					



* AND 18



US() GS() (kg)

ST() NT()

OL()

* Weight Data (8 byte)

a. 13.5 kg : '1','1','1','1','1','1','3','5'

b. 135 kg : '1','1','1','1','1','1','3','5','5'

c. -135 kg : '1','1','1','1','1','1','3','5','5'

(3) COMMAND MODE (F22-3)

dd RW CR LF		22 byte
dd MZ CR LF		dd MZ CR LF PC
dd MT CR LF		dd MT CR LF PC
dd HI 00000 CR LF	(NT-501A)	dd HI 00000 CR LF PC 00000 :
dd LO 00000 CR LF	(NT-501A)	dd LO 00000CR LF PC 00000 :
dd HE 00000 CR LF	(NT-501A)	dd HE 00000 CR LF PC 00000 :
dd LE 00000 CR LF	(NT-501A)	dd LE 00000 CR LF PC 00000 :
dd PN 00 CR LF	(00~50)	dd PN 00 CR LF PC
dd OP CR LF	(NT-501A)	dd OP CR LF PC (F40:3 Packer mode)
dd EM CR LF	(NT-501A)	dd EM CR LF PC (F40:3 Packer mode)

* dd : (ASCII : 가 "01" 0x30(hex), 0x31(hex)
 * 00000, 00 : / / / /
 (ASCII : "00345" 0x30(hex), 0x30(hex), 0x33(hex), 0x34(hex), 0x35(hex))
 * : I CR LF
 * : ? CR LF

9. (Test)

(1)

TEST 가

(2)

(TEST 1 ~ TEST 9)

- 1 :
- 2 : VFD
- 3 : A/D
- 4 :
- 5 :
- 6 : SRAM
- 7 : /
- 8 : BCD
- 9 : ANALOG

TEST 1

: VFD			
<input type="checkbox"/> :	1 1	TEST1 KEY	가

<input type="checkbox"/> 1	1	<input type="checkbox"/> 6 <input type="checkbox"/> 6	6	6	<input type="checkbox"/> 0	12
<input type="checkbox"/> 2	2	<input type="checkbox"/> 7	7	9	<input type="checkbox"/> 70	99
<input type="checkbox"/> 3	2	<input type="checkbox"/> 8 <input type="checkbox"/> 8	8	8		
<input type="checkbox"/> 4 <input type="checkbox"/> 4	4	<input type="checkbox"/> 9 <input type="checkbox"/> 9	9	10		
<input type="checkbox"/> 5 <input type="checkbox"/> 5	5	<input type="checkbox"/>	11	13		

TEST 2

: VFD			
<input type="checkbox"/> :	8.8.8.8.8.8.	TEST2 VFD	가
	▼▼▼▼▼▼▼▼	888888888888	

TEST 3

: A/D			
<input type="checkbox"/> :	5500	tEST3 AnALoG	

1. 가 "0" 가

TEST 4

:			
<input type="checkbox"/> :	----- ----05 13---05	tEST4 SERIAL	: 5, : : 5, : 13

1. SERIAL (: Hyper Terminal)
2. '1' '1' 가
3. (F20)

TEST 5

:			
<input type="checkbox"/> :	Good CH 05	tEST5 PrInt	가

1. (F30)
2. 'Good' 가
- 3.

Computer And System
CAS Corporation
http://www.cas.co.kr
TEL 82-2-2225-3500
FAX 82-2-475-4669
TEST OK

TEST 6

: SRAM			
<input type="checkbox"/> :	Good	tEST6 rAM	SRAM

TEST 7

: /			
<input type="checkbox"/> :	In1oUt3	tEST7 rELAY	In1 : 1 1 가 oUt3 : 3 ON

1. NT-501A 가

TEST 8

: BCD			
<input type="checkbox"/> :	oFF	tEST8 bCdoUt	oFF : BCD OFF
<input type="checkbox"/> : on/oFF	on		on : BCD ON

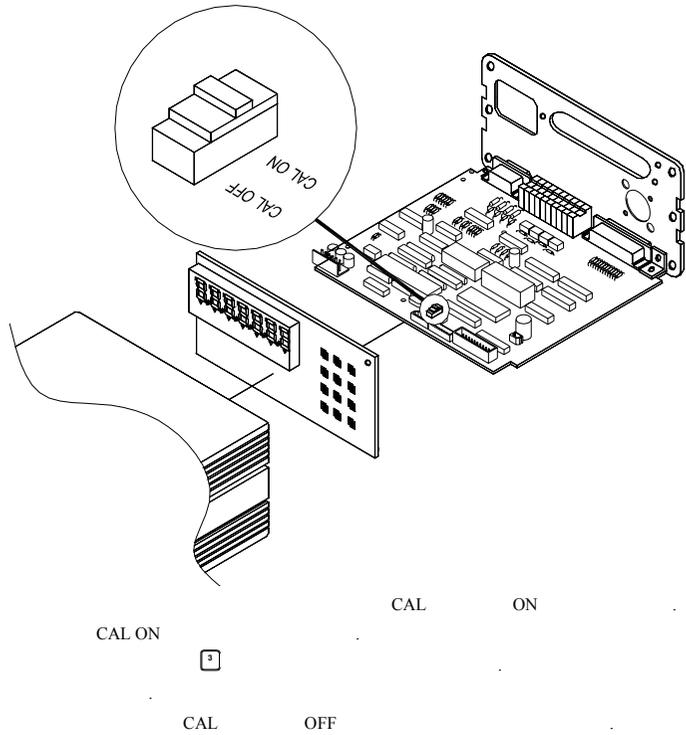
TEST 9

: ANALOG (0-24mA, 0-10V)			
<input type="checkbox"/> :	HIGH	tEST9 AdoUt	HiGH :
<input type="checkbox"/> : HIGH/ZERo	ZERo		ZERo :

1. TEST9 ANALOG OUT ZERO/HIGH 가
2. ZERO/HIGH F61, F62

10. (Calibration)

(1)



53

(2) (CAL 1 ~ CAL 7)

- CAL 1 : (Maximum Capacity)
- CAL 2 : (Minimum Division)
- CAL 3 : (Setting Weight)
- CAL 4 : (Zero Calibration)
- CAL 5 : (Span Calibration)
- CAL 6 : (Verify)
- CAL 7 : (Weigh constant calibration)

CAL 1

: (: 1 ~ 99,999)			
<input type="checkbox"/> :	C= 5000	CAL1 CAPA	5000 kg
<input type="checkbox"/> - <input type="checkbox"/> :	C= 20000		20000 kg
<input type="checkbox"/> :			

1.

CAL 2

: (: 0.001 ~ 500)			
<input type="checkbox"/> :	d= 1	CAL2 dIVI	1 kg
<input type="checkbox"/> - <input type="checkbox"/> :	d= 0.2		0.2 kg
	d= 0.05		0.05 kg
<input type="checkbox"/> :	d= 0.001		0.001 kg

1.

1

2.

, 1/10,000

3. '1', '2', '5', '0'

CAL 3

: (: 1 ~ 99,999)			
<input type="checkbox"/> :	L= 5000	CAL3 SPAn	5000 kg
<input type="checkbox"/> - <input type="checkbox"/> :	L= 500		500 kg
<input type="checkbox"/> :			

1.

100%

가

10%~100%

(CH 12)가

CAL 4

: (Zero Calibration)			
<input type="checkbox"/> :	UnLOAd		<input type="checkbox"/>
<input type="checkbox"/> :	-----	CAL4 ZErO	...
	SUCCESS		

1. , "SUCCESS" 가
(CAL 5)
2. (CH14)가
3.

CAL 5

: (Span Calibration)			
<input type="checkbox"/> :	LOAd		CAL 3
<input type="checkbox"/> :	-----	CAL5 SPAn	<input type="checkbox"/>
	SUCCESS		...
			가

1. "SUCCESS" 가
2. (CH13)가

CAL 6

: (Verify)			
<input type="checkbox"/> :	5000 kg	CAL6 VERiFY	VFD . VFD
<input type="checkbox"/> :	▼		(Bias)

1. 가 VFD , 0 ,
-3,-2,-1, 0, 1, 2, 3
2. , "1-7" 가
"CAL And" 가

CAL 7

: (Weigh constant calibration)			
<input type="checkbox"/> - <input type="checkbox"/> :	FACTOR	CAL7 FACTor	
<input type="checkbox"/> , <input type="checkbox"/> : CAL			

- 1.
2. , 가
3. "1-7" 가 "CAL And" 가
4. 2 FACTOR
FACTOR

11. (Set)

(1)

가

3

(2)

~

(3)

(F01 ~ F65)

F01	, ,
F02	, ,
F03	10 ~ 50 /
F04	1 ~ 50
F05	00 ~ 99
F06	00 ~ 99
F07	OFF / ON
F08	0 / 2 (/ /)
F09	0.1 ~ 9.9 (0.1 ~ 9.9)
F10	0 / 1 (±2% / ±10%)
F11 /	OFF / ON (/)
F12	0 / 1 (/)
F13 8 / 9	0 / 1 (, / ,)

F20 (Baud rate)	1200, 2400, 4800, 9600, 19200bps
F21 (Parity bit)	0 ~ 2 (/ /)
F22	0 ~ 4
F23	00 ~ 99
F24	0 ~ 2 (22byte / 10byte / 18byte)

F30	0 ~ 4
F31	6 가
F32 /	0 / 1 (/)
F33	OFF / ON
F34	
F35	1 ~ 9

F40	0 ~ 4
F41	0.0 ~ 9.9 (0.0 ~ 9.9)
F42	0.0 ~ 9.9 (0.0 ~ 9.9)
F43	00 ~ 99
F44	0 ~ 6

F60	0 ~ 2 (/ BCD / Analog)
F61	00000 ~ 24000 (00.000mA ~ 24.000mA)
F62	00000 ~ 24000 (00.000mA ~ 24.000mA)
F63	0 / 1 (/)
F64	0 ~ 99999
F65 BCD	0 / 1 (/)

: NT-501A

F13, F40~F43

F01

(Change of year, month, day)				
	98.03.02	F01 dAtE	1998	3 2
	00.12.10		2000	12 10

1. ~

F02

(Time adjustment)				
	00.30.01	F02 tImE	00	30 01
	22.20.00		10	20 00

1. ~

F03

(A/D converting speed)				
(10~50)	10	F03 SPEEd	10	.
	20		20	.
	50		50	.

F04

(Digital Filter)				
(1~50)	1	F04 FILtEr	1	.
	20		20	.
	50		50	.

1. F03

F04

F05

(Stable condition set of weight)				
(00~99)	23	F05 StAbLE	3	2 가 .
	55		5	5 가 .
	98		8	9 가 .

1.

F06

(Automatic zero condition set)				
(00~99)	00	F06 AZErO		.
	23		3	1
	89		9	4

1.

(digit = × / 2)

F07

(Weight backup)				
(oFF, on)	oFF	F07 bACKUP		.
	on			.

1.

'off'

2.

'off/on'

F08

(Hold type set)				
(0~2)	0	F08 HoLd		:
	1			:
	2			:

F09

(Average hold time)			
(0.1~9.9)	0.1	F09 H-TIME	0.1
	9.9		9.9

F10

(Zero key operation range set)			
(0, 1)	0	F10 rAnGE	±2 %
	1		±10%

F11

(Operation condition of zero, tare key ; stable/unstable)			
(oFF, on)	oFF	F11 Zt-C	가
	on		

1.

'off/on'

F12

(Load cell type)			
(0, 1)	0	F12 L-tyPE	
	1		

F13 (NT-501A)

8 / 9 (8 / 9 Key using set)			
(0, 1)	0	F13 8-9KEY	/
	1		/

F20

(Baud rate set)			
(0~4)	0	F20 bAUd	1200bps
	1		2400bps
	2		4800bps
	3		9600bps
	4		19200bps

F21

(Parity bit set)			
(0~2)	0	F21 PArly	: 8, : 1, :
	1		: 7, : 1, :
	2		: 7, : 1, :

F22

(Data set sent to computer)			
(0~4)	0	F22 SENd	
	1		,
	2		가
	3		(Command)
	4		(PRT)

1.

0

2. F22 3

'8.

(3) COMMAND MODE

3. Serial

(F30-4)

F23

(Device ID :)			
(00~99)	00	F23 dVICE	00
	05		05

1. COMMAND MODE

F24

(Serial data format)			
(0~2)	0	F24 S-ForM	22 bytes – CAS
	1		10 bytes – CAS
	2		18 bytes – AND

F30

(Employed printer set)			
(0~4)	0	F30 Print	
	1		EPSON
	2		: FS-7000D, 7040P
	3		EPSON (LQ-550H, LQ-1550H)
	4		Serial

F31

(Print Form)			
(0~5)	0	F31 P-Form	0 (, , , ,)
	1		1 (, , ,)
	2		2 (, , , ,)
	3		3 (, ,)
	4		4 (, , ,)
	5		5 (, , , ,)

1. 001 999 , □, □ 가 ,

001

2. No.1 No.999 , 가

F33 on

【 0 】

【 1 】

2002. 1. 1	12:30
001, ID_11	50.0 kg
002, ID_12,	100.0 kg
003, ID_19,	200.5 kg

2002. 1. 1	12:30
No.10	50.0 kg
No.11	100.0 kg
No.12	200.5 kg

【 2 】

【 3 】

2002. 1. 1	12:30
Gross :	1000.0 kg
Tare :	0.0 kg
Net :	1000.0 kg
Gross :	2000.0 kg
Tare :	500.0 kg
Net :	1500.0 kg

2002. 1. 1	12:30
10:10 Net :	50.0 kg
11:00 Net :	100.0 kg
12:30 Net :	200.5 kg
13:45 Net :	100.0 kg
15:20 Net :	200.0 kg
17:45 Net :	300.5 kg
18:01 Net :	500.0 kg

【 4 】

【 5 】

2002. 1. 1	12:30
ID_11, Net:	50.0 kg
ID_12, Net.,	100.0 kg
ID_19, Net:	200.5 kg

2002. 1. 1	12:30
001,	1000.0 kg
2002. 1. 1	12:50
002,	200.5 kg

F32

/ (Manual/Automatic print set)			
(0, 1)	0	F32 APrint	(Batching) - Packer mode, NT-501A
	1		
	2		

1. 가 , ?

F33

(Initialization of number measured daily)			
(off, on)	off	F33 Initial	(No.1)
	on		

1. 'off/on'

F34

(Input user's print message)			
<input type="checkbox"/> : 가 <input type="checkbox"/> ~ <input type="checkbox"/> :	P12-065	F34 ASCII	12 ASCII 65 "A"
	P00-032		0
	P18-255		18 ASCII 255

1. 가
 (: ,)
 2. 가 0 71 , 0 가
 (032: , :) , 1
 255 가 가
 3. "CAS" 가
 P00-032(ASCII 32 :), P01-067(ASCII 67 : C)
 P02-065(ASCII 65 : A), P03-083(ASCII 83 : S)
 P04-255(ASCII 255:)

4. ASCII

	32	0	48	@	64	P	80	`	96	p	112
!	33	1	49	A	65	Q	81	a	97	q	113
"	34	2	50	B	66	R	82	b	98	r	114
#	35	3	51	C	67	S	83	c	99	s	115
\$	36	4	52	D	68	T	84	d	100	t	116
%	37	5	53	E	69	U	85	e	101	u	117
&	38	6	54	F	70	V	86	f	102	v	118
'	39	7	55	G	71	W	87	g	103	w	119
(	40	8	56	H	72	X	88	h	104	x	120
)	41	9	57	I	73	Y	89	i	105	y	121
*	42	:	58	J	74	Z	90	j	106	z	122
+	43	;	59	K	75	[	91	k	107	{	123
,	44	<	60	L	76	\	92	l	108	|	124
-	45	=	61	M	77	]	93	m	109	}	125
.	46	>	62	N	78	^	94	n	110	~	126
/	47	?	63	O	79	_	95	o	111		255

F35

(Line feed set)			
(1~9)	1	F35 FEEd	1
	5		5
	9		9

/

F40 (NT-501A)

(Relay mode)			
(0~4)	0	F40 rELAY	Limit Mode
	1		Checker Mode
	2		Limit type Checker Mode
	3		Packer Mode
	4		

<Limit mode>

	0 kg	() 50 kg	() 100 kg	
(1)		—	—	ON OFF
(2)	—		—	ON OFF
(3)	—	—		ON OFF
(4)	—	—		ON OFF

1. (OUT4) ON 가
2. ON 가 ON 가
3. F43

< Limit type Checker Mode >

	0 kg	() 50 kg	() 100 kg	
(1)		—	—	ON OFF
(2)			—	ON OFF
(3)	—	—		ON OFF
(4)	—			ON OFF

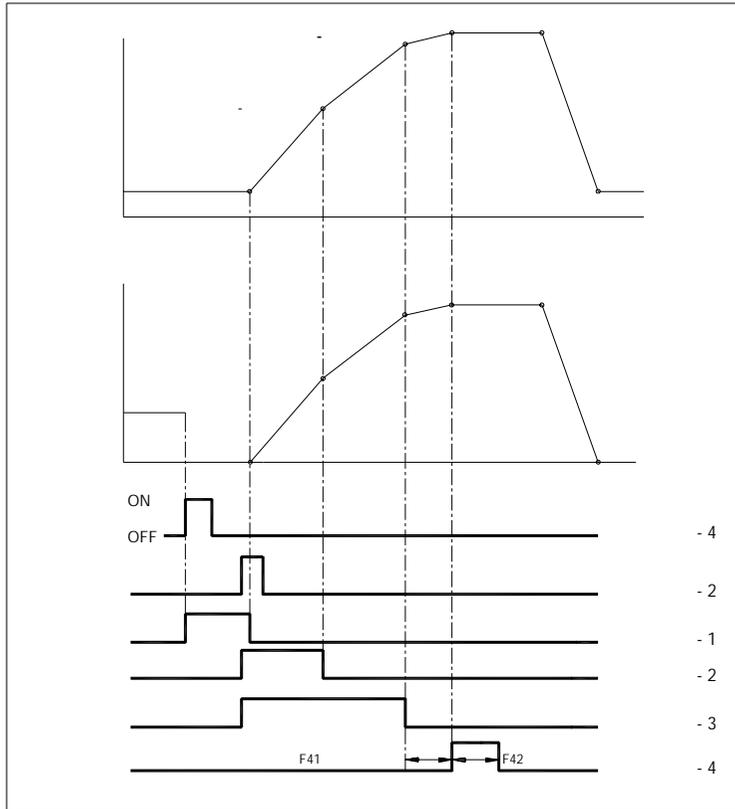
1. F43

< Checker mode >

	0 kg	() 50 kg	() 100 kg	
(1)		—	—	ON OFF
(2)			—	ON OFF
(3)	—	—		ON OFF
(4)	—			ON OFF

1. / / F41 ON , F42 OFF
2. F43

< Packer Mode >



F41 (NT-501A)

(Finish signal start delay time)			
(0.0~9.9)	0.0	F41 dELAY1	
	1.3		1.3
	5.5		5.5

F42 (NT-501A)

(Finish signal end delay time)			
(0.0~9.9)	0.0	F42 dELAY2	
	1.3		1.3
	5.5		5.5

F43 (NT-501A)

(Operational range of zero relay)			
(00~99)	00	F43 ZrELAY	ON
	30		30 ON

F44

(Function external input set)						
(0~6)		F44 SELEct	1	2	3	4
	0					
	1					/
	2					
	3					
	4					
	5					
6						

1. NT-501A

F60

(Option Select)			
(0~2)		F60 oPtlon	
	0		
	1		BCD
	2		Analog (Vout : 0 - 10V), (Iout : 0 - 24mA)

F61

(Output current at display zero)			
(0~24000)		F61 ZERo	
	00000		0 mA
	4000		4.000 mA
	4015		4.015 mA

F62

(Output current at full scale)			
(0~24000)		F62 High	
	00000		0 mA
	20000		20.000 mA
	21315		21.315 mA

F63

(Analog output data)			
(0, 1)		F63 n-g	
	0		
	1		

F64

(Max. capa. set of analog output full scale)			
(0~99999)		F64 A-CAPA	
	01000		1000kg
	20000		2000kg
	050.30		50.30kg

F65

BCD (Output Logic - BCD OUT)			
(0, 1)		F65 LoGIC	
	0		
	1		

12. (Weighing)

(1)

1			
2			
3			'0'kg

1. ±2% ±10%

F10

2. 가

가 F11

(2) /

1			: 5.00 kg
2			
3			가 가
4		+	() : 13.00 kg 가
5			
6		+	() : 18.00 kg 가

1. F10

2.

가

(3)

1			
2			
3			1 ~ 65
4			4 '5' '5' : 5
5			'5' '9' '9' : 9
6			
7			
8			
9			

(4)

1			
2		()	
3	<input type="checkbox"/>		
4	<input type="checkbox"/> , <input type="checkbox"/>		'10'
5		()	
6	<input type="checkbox"/>		
7		()	

1. 0~50

(5) (NT-501A)

1			
2	<input type="checkbox"/>		'HI'가
3	<input type="checkbox"/> , <input type="checkbox"/> , <input type="checkbox"/> , <input type="checkbox"/> , <input type="checkbox"/>		(500.0kg)
4	<input type="checkbox"/>		
5	 		500.0kg

1. / / /
2.

(6) (NT-501A)

1			500.0kg
2	<input type="checkbox"/> , <input type="checkbox"/>		'HI FALL'
3	<input type="checkbox"/> , <input type="checkbox"/> , <input type="checkbox"/>		(5.2 kg)
4	<input type="checkbox"/>		
5			500.0 kg 5.2 kg

1. / / /
2.
3. , 5, 6

(7) (SET-POINT)

1			
2	<input type="checkbox"/> (3 .)		
3			(0~50) 1

1. 가 (SET-POINT)

(8)

□ '10' 가

1	<input type="checkbox"/>		
2	<input type="checkbox"/> , <input type="checkbox"/> , <input type="checkbox"/>		'10'
3	<input type="checkbox"/>		
4	<input type="checkbox"/>		

- 1.
2. 가 ,

(9)

1	<input type="checkbox"/>		
2	<input type="checkbox"/>		

- 1.

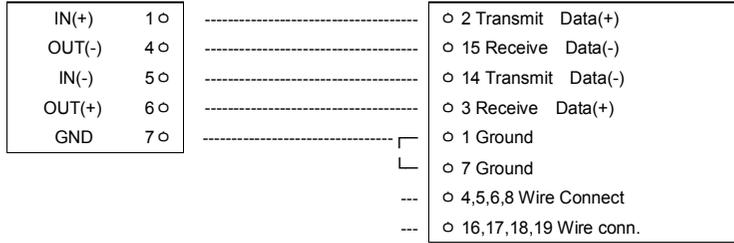
13. (Option)

- 1	RS422/RS485
-----	-------------

: RS-232C

(format) : RS-232C

RS-422



9 (Male)

RS422/RS485

25 (Female)

- 2	BCD
-----	-----

Parallel BCD Out

BCD CODE

Interface

Photo-Coupler

F65	(Positive Logic),	(Negative Logic)
-----	-------------------	------------------

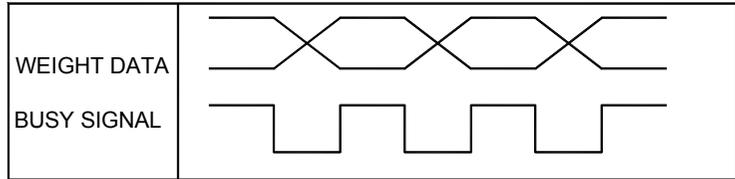
1	Ground (GND)	26	High : , Low :
2	1×10 ⁰	27	N.C.
3	2×10 ⁰	28	N.C.
4	4×10 ⁰	29	N.C.
5	8×10 ⁰	30	N.C.
6	1×10 ¹	31	N.C.
7	2×10 ¹	32	N.C.
8	4×10 ¹	33	N.C.
9	8×10 ¹	34	N.C.
10	1×10 ²	35	N.C.
11	2×10 ²	36	N.C.
12	4×10 ²	37	(External Vcc)
13	8×10 ²	38	N.C.
14	1×10 ³	39	(External Vcc)
15	2×10 ³	40	N.C.
16	4×10 ³	41	N.C.
17	8×10 ³	42	High : + , Low : -
18	1×10 ⁴	43	: 10 ¹
19	2×10 ⁴	44	: 10 ²
20	4×10 ⁴	45	: 10 ³
21	8×10 ⁴	46	Over Load
22	1×10 ⁵	47	N.C.
23	2×10 ⁵	48	N.C.
24	4×10 ⁵	49	Busy
25	8×10 ⁵	50	

50 : CHAMP 57-40500 (Amphenol - Female)

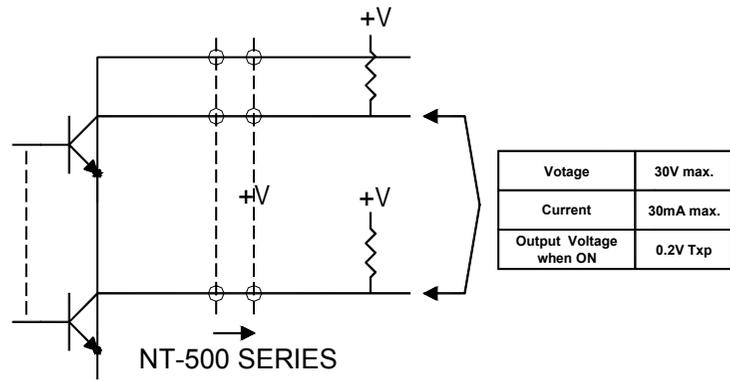
TTL Open - Collector Output

(1) BCD : (Positive), (Negative)

- (2) : "+" = High
- (3) OVER : "OVER" = High
- (4) BUSY : "BUSY" = High
- : Mating Connector 57-30500(AmphenoI - Male) 1



BCD



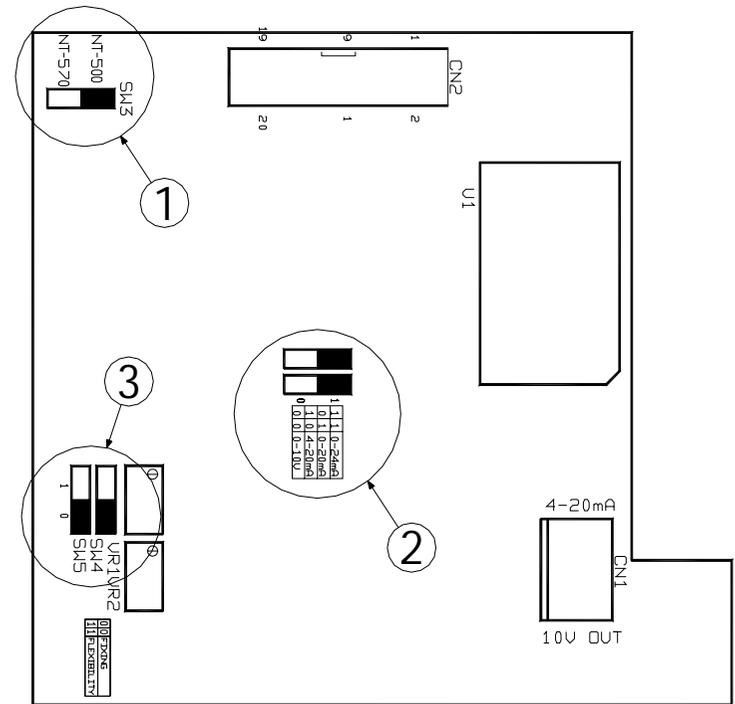
Voltage	30V max.
Current	30mA max.
Output Voltage when ON	0.2V Txp

- (1) BCD Open Collector Type
- (2) 가 Pull-up 37, 39

- 3	Analog
-----	--------

(1) (0-24mA)

	0 - 24 mA
	1/1000
	0.01%/I
	500Ω

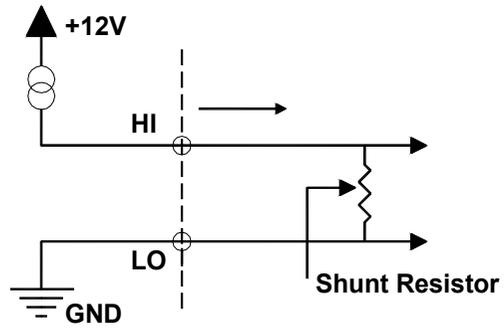
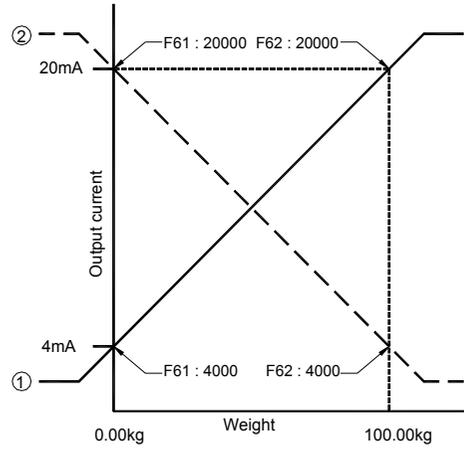


NT-500 0-24mA Fixing

- : 100 kg, : 0.00 kg

- F61 : 4000, F62 : 20000

- F61 : 20000, F62 : 4000



F61 : 4 mA, F62 : 20 mA

250Ω

1V~5V 가

()

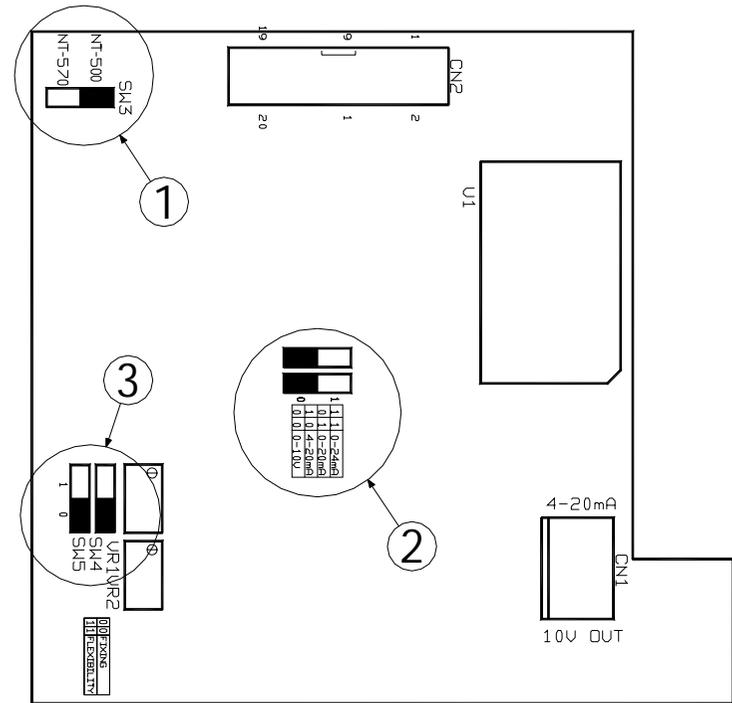
500Ω
, 1/2W

$$W = I^2 R = (0.02)^2 \times 500 = 0.2W$$

가

(2) (0~10V)

	0~10V
	1/1000
	0.01%/



NT-500

0~10V

Fixing

가 0

0V,

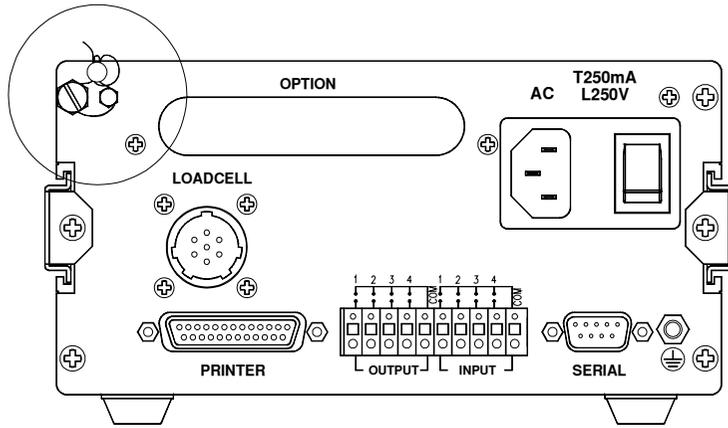
10V 가

F60 : 2

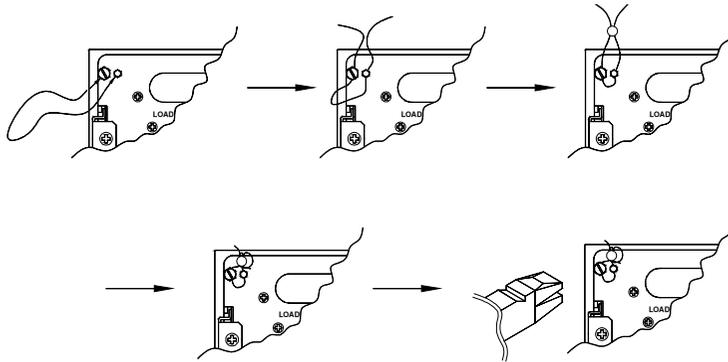
F61 : 0

F62 : 0

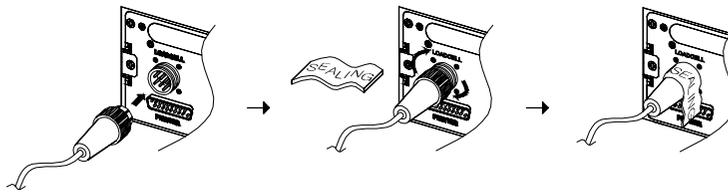
14. (Sealing)



(1)



(2)



15.

(1)

CH 01

가,

CH 02

A/D

CH 03

가

±10%

CH 04

가

A/S

CH 05

가

A/S

Over

가

(2)

CH 11

가 1/10,000

= /1

CAL 1

CAL 2 1

1/10,000

CH 12

가 10% 100%

CAL 3

10%~100%

CH 13

가

CH 14

가 A/S

Memo

*

[Redacted]

[Redacted]

가 가

1. [Redacted]

[Redacted]

1 [Redacted]

가

2. [Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

가

3. [Redacted]

[Redacted]