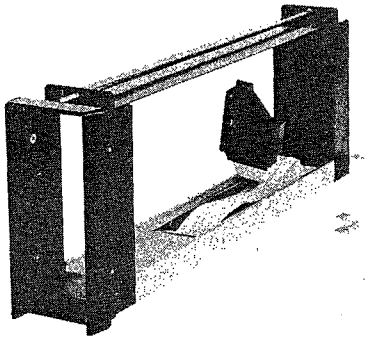
General Specifications

Model SHUP Housing (Panel Mounting) YEWSERIES 80
Model MTS Mounting Kit

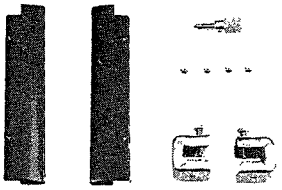
Model SHUP HOUSING (Panel Mounting)

The SHUP Housing Kit is for panel-mount instruments. Housings are available for standard-width panel-mount instruments as well as for double-width instruments such as the SRHD recorder. Instrument housings can be ordered separately from (prior to) te plug-in instrument modules themselves, and pre-wired.

The MTS Mounting Kit (see below) can be ordered with the Housing Kit or separately.



Housing Kit



Mounting Kit

STANDARD SPECIFICATIONS

Housing: Open front. Connector for SPBD Portable Manual Station.

Wiring: Connectors are used to interconnect instrument modules and housings.

Signal Wiring to/from the Field: ISO M4 size (4 mm) screws on terminal block.

Power and Ground Wiring:

100 V version: JIS C 8303 two-pin plug with earthing contact. (IEC A5-15, UL498)

220 V version: CEE 7 VII (CENELEC standard) plug.

Cable Length: 300 mm.

Material: Aluminium base plate, other parts steel.

Mounting: Panel mounting (instruments can be mounted side-by-side or separately). Rear of housing may be up to 75° below front.

Housing Dimensions:

Standard: 182.5 (H) X 87 (W) X 480 (D) mm

For SRHD; 182.5 (H) X 157 (W) X 480 (D) mm

Panel cutout:

Standard: 172 ± 0.5(H) x 80 ± 0.5(W)mm

For SRHD: 172 ± 0.5(H) x 150 ± 0.5(W) mm

Weight:

Standard: 2 kg (excluding mounting kit)

For SRHD: 2.5 kg (excluding mounting kit)

OPTIONS

/A2ER: For "220 V version" power supply.

/MTS: Supplied with kit for mounting instruments Individually. When instruments are to be mounted side-by-side, order MTS Mounting Kit (see below) rather than /MTS option.

/SCF-G□M: Mounting kit bezel color change from standard color (black). Chose the color from set of optional colors (see GS 22D1F1-E). Specify color code in space □.

/FP: With blank panel.
May be installed in spare housing where instrument is not equipped.

MODEL AND SUFFIX CODES

Model	Suffix Codes		Description
SHUP	. . . . .		Housing Kit
	-000		Standard version
	-200		Double width for SRHD
Style Code	*A		Style A
Options		/A2ER	220 V power supply
		/MTS	With mounting kit
		/SCF-G□M	Bezel color change
		/FP	With blank panel

Model MTS MOUNTING KIT

The MTS Mounting Kit comprises a bezel used with the SHUP Housing, plus a clamp to stop sideways movement of instruments in housings. When instruments are mounted individually, order one mounting kit per instrument. Otherwise, order one mounting kit per row of instruments.

STANDARD SPECIFICATIONS

Bezel: Aluminium diecast material, black baked-enamel finish.
Weight: 0.4 kg.

Components of Mounting Kit

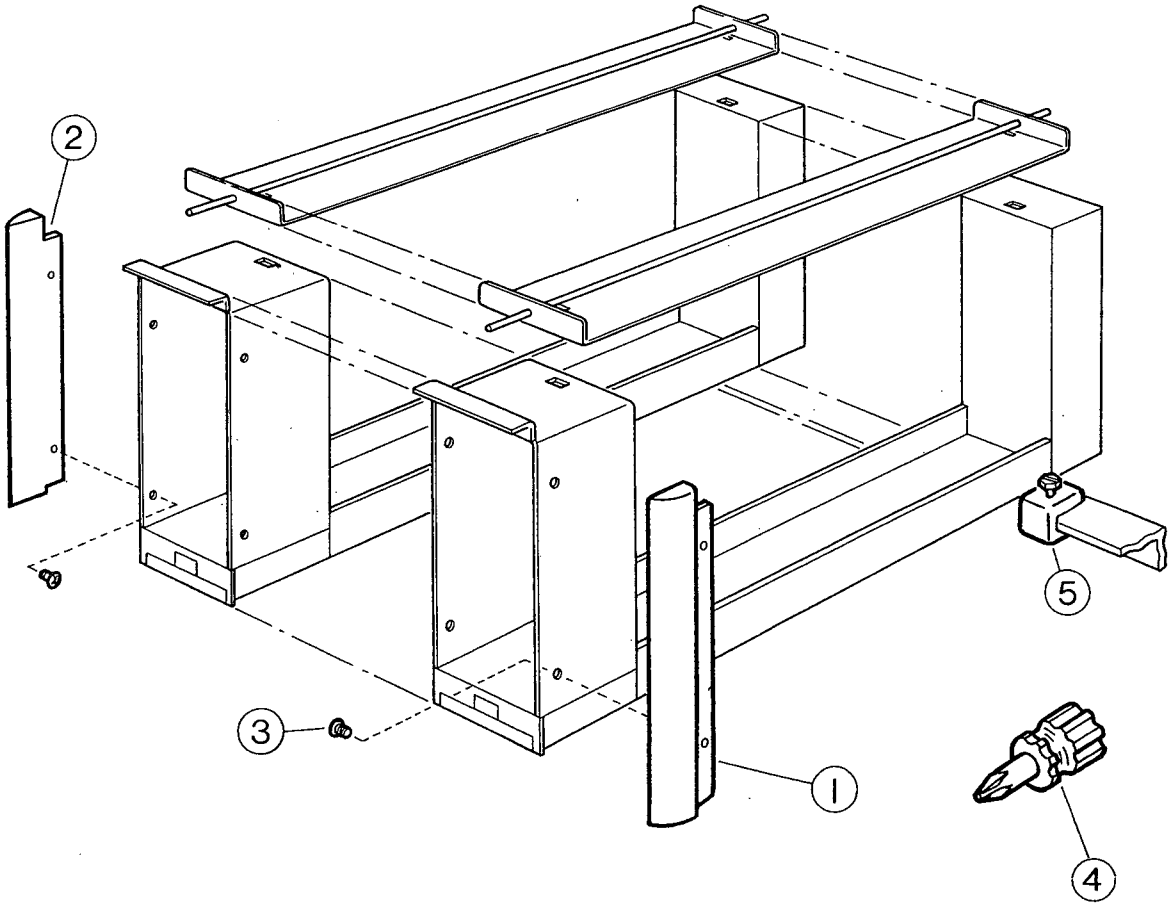
Item No.	Part No.	Name	Quantity
1	E9310CK	Bezel (right)	1
2	E9310CL	Bezel (left)	1
3	Y9406EB	Screw	4
4	E9310CT	Special screwdriver	1
5	E9310DT	Clamp	2

OPTIONS

/SCF-G□M: Mounting kit bezel color change from standard color (black). Chose the color from set of optional colors (see GS 22D1F1-E). Specify color code in space □.

MODEL AND SUFFIX CODES

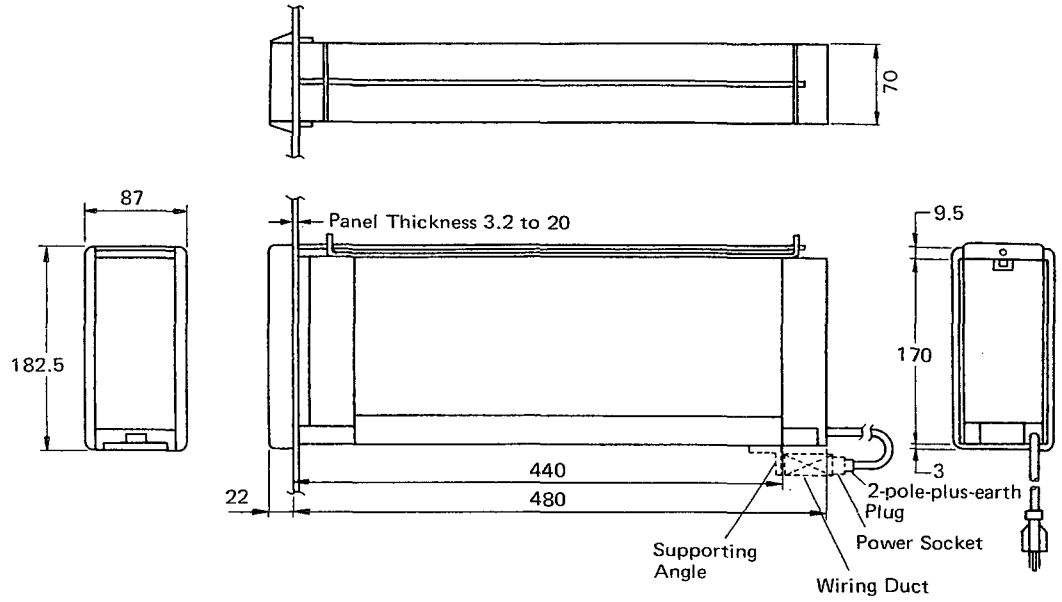
Model	Suffix codes	Description
MTS-000	. . . . .	Mounting Kit for use with YewSeries 80 Housing Kit
Option	/SCF-G□M	Bezel color change



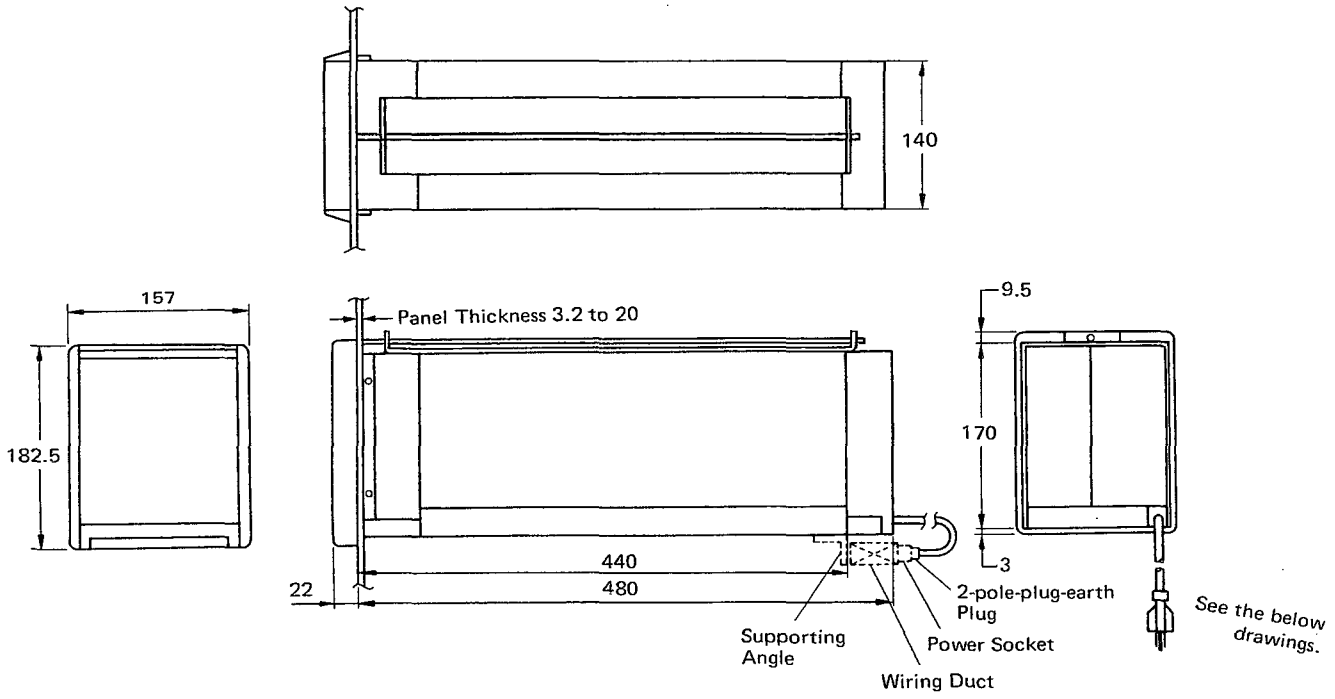
EXTERNAL DIMENSIONS

1) Standard

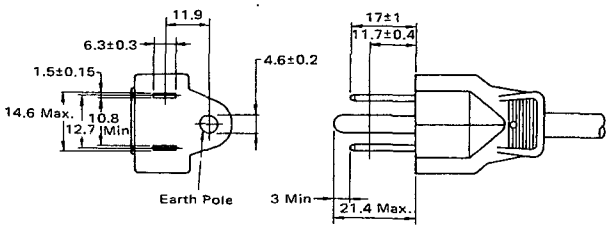
Unit: mm



2) For SRHD

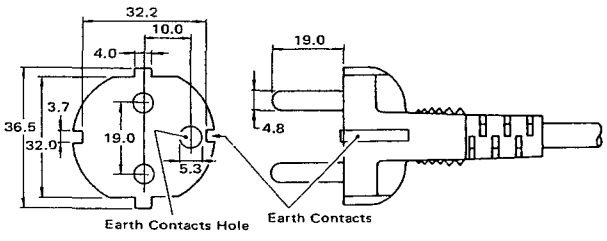


100 V Version Plug



JIS C 8303 15A 125 V Two-pin Plug with Earthing Contact

220 V Version Plug



CEE Publication 7 Standard Sheet VII
10/16A 250 V Two-pole Plug with Dual-earthing Contacts

Terminal Wiring for Panel Mount Instrument (1)

SRVD		SRHD		SIHM	
Terminal Designation	Description	Terminal Designation	Description	Terminal Designation	Description
1	+ Input 1, 1 to 5 V DC	1	+ Input 1, 1 to 5 V DC	1	+ Input 1, 1 to 5 V DC
2	–	2	–	2	–
3	+ Input 2*1 (1 to 5 V DC)	3	+ Input 2, 1 to 5 V DC	3	+ Input 2, 1 to 5 V DC*4
4	–	4	–	4	–
5		5	+ Input 3, 1 to 5 V DC	5	
6		6	–	6	
7		7		7	
8		8		8	
9		9	+ Input 4, 1 to 5 V DC	9	
10		10	–	10	
11		11	+ Event trigger input or Record Start/Stop trigger input or Chart Speed Selector trigger input	11	
12		12	–	12	
13		13		13	
14		14		14	
15	+ Input 2, high limit alarm*3	15	+ Alarm output 4	15	
16	–	16	–	16	
17		17		17	
18		18		18	
19	+ Input 2, low limit alarm*3	19	+ Alarm output 3	19	
20	–	20	–	20	
21		21	– Fail output (– terminal)	21	
A		A		A	
B	+ Input 1, high limit alarm*2	B		B	
C	–	C		C	
D	+ Input 1, low limit alarm*2	D		D	
F	–	F		F	
H		H		H	
J		J	+ Alarm output 1	J	
K		K	–	K	
L		L	+ Alarm output 2	L	
M		M	–	M	
N		N	+ Fail output (+ terminal)	N	

SIHF		SIHK		SLCD	
Terminal Designation	Description	Terminal Designation	Description	Terminal Designation	Description
1	+ Input 1	1	+ Input (1 to 5 V DC)	1	+ Process variable input
2	–	2	–	2	–
3		3		3	+ Cascade set point input
4		4		4	–
5		5		5	+ Tracking input
6		6		6	–
7		7		7	
8		8		8	
9		9		9	
10		10		10	
11		11	+ Lamp 1 (upper)	11	+ Instrument mode switching
12		12	– Lamp 1 (upper)	12	–
13		13	+ Lamp 2 (lower)	13	+ (C, A)/M contact output
14		14		14	–
15		15		15	+ C/(A, M) contact output
16		16		16	–
17		17	NC	17	+ Communication *5
18		18	COM Alarm output contact ("Low" alarm point)	18	–
19		19	NO	19	+ Deviation alarm output
20		20		20	–
21		21		21	– Fail output (negative terminal)
A		A		A	+ Manipulated output (4 to 20 mA) *6
B		B		B	–
C		C		C	+ Manipulated output (1 to 5 V)
D		D		D	–
F		F		F	+ Set point output (1 to 5 V)
H		H		H	–
J	+ Alarm output contact 1	J	NC	J	+ Input high limit alarm output
K	–	K	COM Alarm output contact ("High" alarm point)	K	–
L	+ Alarm output contact 2	L	NO	L	+ Input low limit alarm output
M	–	M		M	–
N		N		N	+ Fail output (positive terminal)

Terminal Wiring for Panel Mount Instrument (2)

SLPC		SLMC		SMLD	
Terminal Designation	Description	Terminal Designation	Description	Terminal Designation	Description
1	+	1	+	1	+
2	– Analog input 1	2	– Analog input 1	2	– Input 1 to 5 V DC
3	+	3	+	3	
4	– Analog input 2	4	– Analog input 2	4	
5	+	5	+	5	
6	– Analog input 3	6	– Analog input 3	6	
7	+	7	+	7	
8	– Analog input 4	8	– Analog input 4	8	
9	+	9	+	9	
10	– *Analog input 5*	10	– Analog input 5	10	
11	+	11	+	11	
12	– Contact input 1	12	– Contact input 1	12	
13	+	13	+	13	
14	– Contact input 2	14	– Contact input 2	14	
15	+	15	+	15	
16	– Contact input 3	16	– Contact input 3	16	
17	+	17	+	17	
18	– Communications *5	18	– Communications *5	18	
19	+	19	+	19	
20	– Contact output 3	20	– Contact output 3	20	
21	– Fail (negative terminal)	21	– Fail (negative terminal)	21	
A	+ Analog output 1 *6	A	+ Analog output 1 *7	A	
B	– (current output)	B	– (current output)	B	+
C	+	C	+	C	– Manipulated output 4 to 20 mA*6
D	– Analog output 2	D	– Analog output 2	D	+
F	+	F	+	F	– Manipulated output 1 to 5 V DC
H	– Analog output 3	H	– Analog output 3	H	
J	+	J	+ Contact output 1	J	
K	– Contact output 1	K	– (manipulated output No. 1)	K	
L	+	L	+ Contact output 2	L	
M	– Contact output 2	M	– (manipulated output No. 2)	M	
N	+ Fail (positive terminal)	N	+ *Fail (positive terminal)*	N	

SMST		SMRT		SBSD	
Terminal Designation	Description	Terminal Designation	Description	Terminal Designation	Description
1	+	1	+ Process variable input	1	
2	– *Process variable input, 1 to 5 V DC*	2	– (1 to 5 V DC)	2	Process variable input, pulse signal *8
3	+	3	+ Remote ratio set point input	3	
4	– Auto ("Cascade") input, 1 to 5 V DC	4	– (1 to 5 V DC)	4	B
5		5	+ Tracking input	5	B RTD input*9 Compensation input, 1 to 5 V DC *10
6		6	– (1 to 5 V DC)	6	A
7		7	+ *External bias input*	7	+ *Process variable input, or auxiliary*
8		8	– (1 to 5 V DC)	8	– flow input, 1 to 5 V DC *11
9		9		9	+ Master pacing input
10		10		10	+ Start input
11	+	11	+	11	+ Reset input
12	– Mode transfer (contact input)	12	– Mode transfer input	12	+ Stop input
13		13	+ Preset manual input	13	– Common
14		14	–	14	+ Pre-batch output
15	+	15		15	+ Batch end output
16	– Mode (contact output)	16		16	– Common (& reset output, – terminal)
17	+	17	+	17	+
18	– Communications*5	18	– Communications*5	18	– Communications *5
19		19	+	19	+
20		20	– (C, A)/M contact output	20	– Auxiliary pulse flow signal input
21	– Fail output (– terminal)	21	– Fail output (negative terminal)	21	– Fail output (– terminal)
A	+ Manipulated output 1, 4 to 20 mA DC	A	+ Manipulated output	A	
B	– (SMST-121 only)*6	B	– (4 to 20 mA DC) *6	B	
C	+ Manipulated output 2 (SMST-121) or	C	+ *Manipulated output*	C	+ *Demand pulse or flow signal repeater*
D	– Set point output 1 (SMST-111), 1 to 5 V DC	D	– (1 to 5 V DC)	D	– (pulse output)
F	+ Manipulated output 3 (SMST-121) or	F	+ Ratio set point signal output	F	+ Reset output (+ terminal)
H	– Set point output 2 (SMST-111), 1 to 5 V DC	H	– (1 to 5 V DC)	H	
J		J	+ K	J	+
K		K	– Process variable high limit alarm output	K	– Flow signal repeater , 1 to 5 V output *11
L		L	+	L	+
M		M	– Process variable low limit alarm output	M	– Alarm output
N	+ Fail output (+ terminal)	N	+ Fail output (positive terminal)	N	+ Fail output (+ terminal)

Terminal Wiring for Panel Mount Instrument (3)

SLCC		SLBC		STLD	
Terminal Designation	Description	Terminal Designation	Description	Terminal Designation	Description
1		1		1	
2	Process variable input, pulse signal *8	2	Process variable input, pulse signal *8	2	Process variable input, pulse signal *8
3		3		3	
4	B	4	B	4	B
5	B — RTD input*5 — + Compensation input, 1 to 5 V DC *10 — −	5	B — RTD input *9 — + Compensation input, 1 to 5 V DC *10 — −	5	B — RTD input*9 — + Compensation input, 1 to 5 V DC *10 — −
6	A	6	A	6	A
7	+	7	+	7	+
8	− Process variable input, 1 to 5 V DC	8	− Process variable input, or auxiliary flow input, 1 to 5 V DC	8	− Process variable input, or auxiliary flow input, 1 to 5 V DC *11
9	+	9	+ Master pacing input	9	
10	− Flow setpoint input, 1 to 5 V DC	10	+ Start input	10	
11	+ Reset input	11	+ Reset input	11	+
12	+ A/M transfer input	12	+ Stop input	12	Reset input
13	− Common	13	− Common	13	−
14	+ Totalizer deviation alarm output (1st level)	14	+ Pre-batch output	14	
15	+ Totalizer deviation alarm output (2nd level)	15	+ Batch end output	15	
16	− Common	16	− Common (& reset output, − terminal)	16	
17	+	17	+	17	+
18	− Communications *5	18	− Communications *5	18	− Communications *5
19	+	19	+	19	+
20	− Demand pulse input	20	− Auxiliary pulse flow signal input	20	− Auxiliary pules flow signal input
21	− Fail output (− terminal)	21	− Fail output (− terminal)	21	− Fail output (− terminal)
A	+	A	+	A	
B	− Manipulated output, 4 to 20 mA DC	B	− Manipulated output, 4 to 20 mA DC	B	
C	+	C	+	C	+
D	− Flow signal repeater (pulse output)	D	− Flow signal repeater (pulse output)	D	− Flow signal repeater (pulse output)
F		F	+ Reset output (+ terminal)	F	
H		H		H	
J	+	J	+	J	+
K	− Flow signal repeater (1 to 5 V output)	K	− Flow signal repeater (1 to 5 V output)	K	− Flow signal repeater (1 to 5 V output) *11
L		L	+	L	
M		M	− Alarm output	M	
N	+ Fail output (+ terminal)	N	+ Fail output (+ terminal)	N	+ Fail output (+ terminal)

Notes:

*1: Pen 2 of 2-pen model

*2: Pen 1 alarm output

*3: Pen 2 alarm output

*4 In Model SIHM-200*B (Input 1: Red Pointer / Input 2: Blue Pointer)

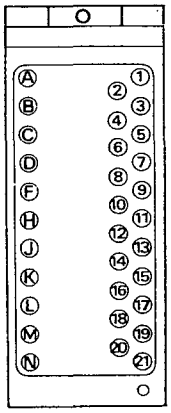
*5: Use shielded twisted-pair cable (SCCD, see GS 34B5K3-02E).

*6: If these terminals are not used connect them together.

*7: Jumper these terminal when the output indicator is used for valve opening indication and manipulated output indication.

*8:

Terminal No.	Contact or Voltage Level Pulse	2-wire Transmitter *12	3-wire Transmitter *12
1	+	−	Sig
2	− Transmitter	+ Transmitter	− Transmitter
3			+



*9: Compensation input: RTD

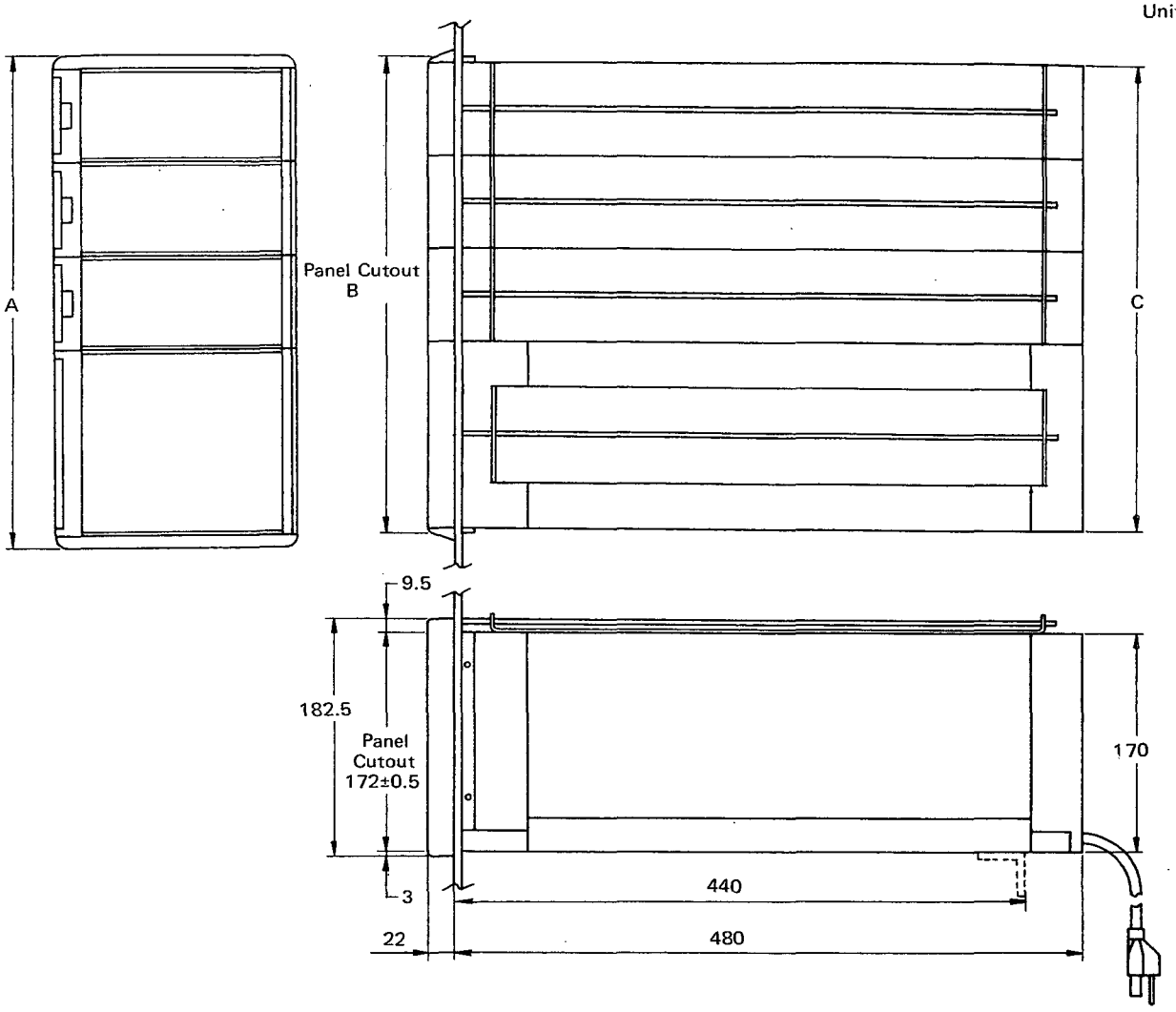
*10: Compensation input: 1 to 5 V DC

*11: For model with analog I/O

*12: 12V/24V distributor for transmitter built into instruments.

DIMENSIONS FOR SIDE-BY-SIDE MOUNTING

Unit: mm



n	1	2	3	4	5	6	7	8
A	87	159	229	300	370	442	512	583
B	80±0.5	150±0.5	220^{+1}_{0}	291^{+1}_{0}	$361^{+1.5}_{0}$	$433^{+1.5}_{0}$	$503^{+1.5}_{0}$	$574^{+1.5}_{0}$
C	70	140	210	280	350	420	490	560

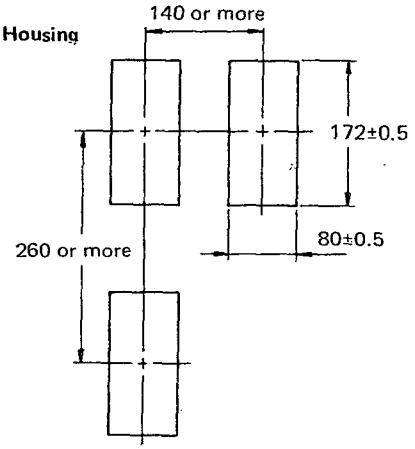
n	9	10	11	12	13	14	15	16
A	653	723	794	864	935	1005	1075	1145
B	$644^{+1.5}_{0}$	$714^{+1.5}_{0}$	$785^{+1.5}_{0}$	$855^{+1.5}_{0}$	$926^{+1.5}_{0}$	$996^{+1.5}_{0}$	1066^{+2}_{0}	1136^{+2}_{0}
C	630	700	770	840	910	980	1050	1120

n: Number of housing units
(use n=2 for SRHD)

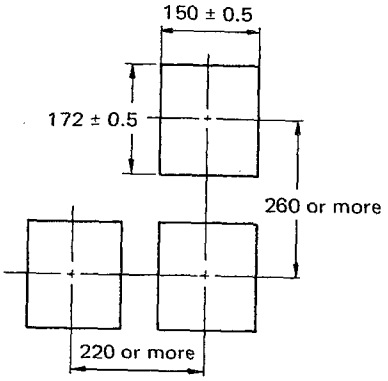
DIMENSIONS FOR SEPARATE MOUNTING

Unit: mm

Standard Housing



For SRHD



ORDERING INSTRUCTIONS

When ordering, specify the model and suffix codes.

RELATED EQUIPMENT

Blank Panel . . . . . Part No. E9710CF

Printed in Japan , 504(YG)