



Paperless Recorder

Datasheet

SUP-R9600

This recorder is launched in full product range with outstanding specifications features high performance and high operating functionalong with high visibility Color LCD display. Universal input with high speed of sampling rate and high accuracy rating . Measured data is stored into memory and support up to 48MB.

FEATURES

Basic Functions

- Up to 18 channels of universal input
- UP to 4 Alarm Output Relays
- With 150mA Power distribution Output
- Communication type: RS485, Modbus RTU
- With a USB data transfer interface

Display & Operation

- Multiple display Function : choose the display your way
- Use date and time calendar search functions to Review historical data .
- 3.5 inch TFT color LCD (320 x 240pixels)

Reliability and Security

- Dust- and splash-proof front panel
- Power Fail Safeguard:All the data stored in Flash memory, make sure that all the historical data and configuration parameters will not lost when power fail. Real time clock power supply by lithium batteries.

Data Acquisition Software

- Software for varieties of tasks : analysis, settings, and acquisition

SPECIFICATIONS

- Input specifications

Number of Inputs: 1~18channels

Measurement Interval: 1s,2s,3s.....1h

Sampling rate : 1s

Inputs: DCV (0-10mV, 0-100mV,0-5V,0-10V,1-5V)

TC (S,R, B, K, N,E, J, T, F1,F2,WRe5-26,WRe3-25)

RTD (Pt100, Cu50,Cu53,BA1,BA2)

DCA (0-20mA,4-20mA)

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* Does not include the accuracy of reference junction compensation

Input	Range	Measurement accuracy (%FS)	Display resolution
DCV	1-5 V	±0.1	1mv
DCA	(4~20)mA	±0.2	1mv
	(0~20)mV、 (-20~20)mV、 (0~100)mV	±0.2	1mv

Input(Thermocouple type)	Range ()	Measurement accuracy ()	Display resolution
B	600 ~ 1800	±2.4	0.1°C
E	-200 ~ 1000	±2.4	0.1°C
J	-200 ~ 1200	±2.4	0.1°C
K	-200 ~ -100	±3.3	0.1°C
	-100 ~ 1300	±2.0	0.1°C
S	-50 ~ 100	±3.7	0.1°C
	100 ~ 300	±2.0	0.1°C
	300 ~ 1600	±1.5	0.1°C
T	-200 ~ -100	±1.9	0.1°C
	-100 ~ 380	±1.6	0.1°C
R	-50 ~ 100	±3.7	0.1°C
	100 ~ 300	±2.0	0.1°C
	300 ~ 1600	±1.5	0.1°C
N	-200 ~ 1300	±3.0	0.1°C

Input	Range ()	Measurement accuracy ()	Display resolution
Cu50	-50 ~ 140	±1.0	0.1°C
Pt100	-200 ~ 800	±1.0	0.1°C

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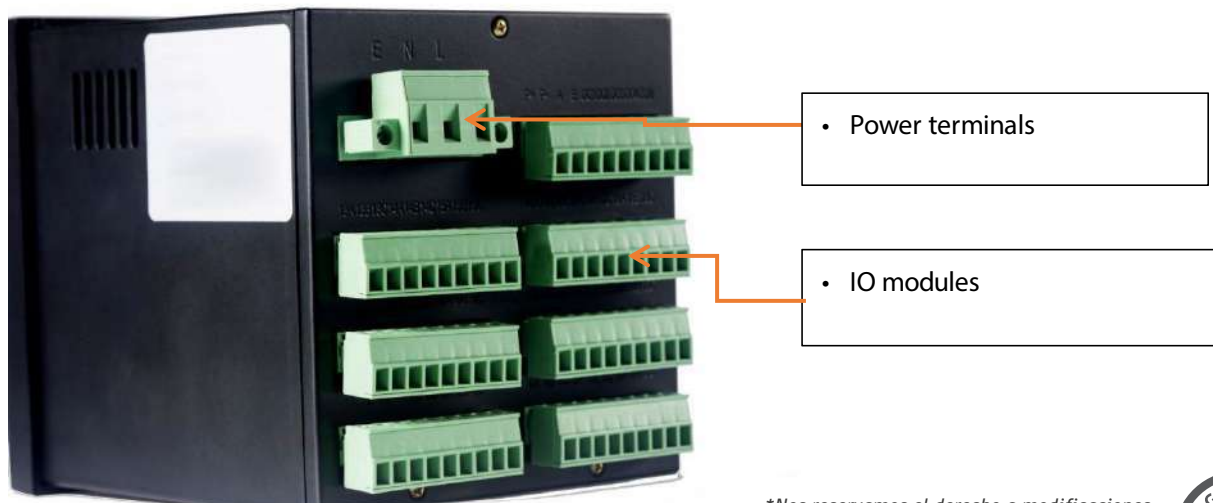


- Power supply
 - voltage range: 176 to 264 VAC
 - Rated power supply frequency: 47-63 Hz (automatic switching)
 - Power consumption: 20 VA (max., for 264 VAC power supply)
- Normal Operating Conditions
 - Ambient temperature: 0 to 50 °C
 - Ambient humidity: 10% to 85%

Front view



Back View

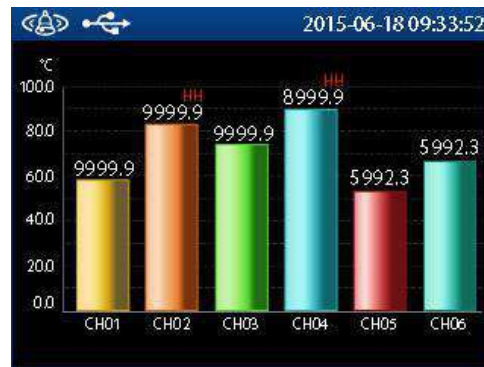


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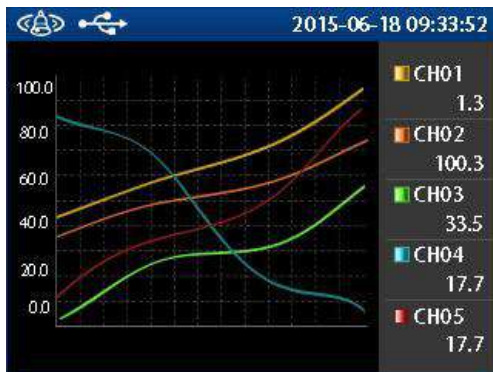
- Display
 - Display unit: 3.5 inch TFT color LCD (320 x 240pixels)
 - Background: black
 - Back light : LED
 - Trend display type: Vertical, horizontal, digital, graph selectable
 - Display renewal rate: 1 s
- Display function
 - User can change display object (trend, numeric, and bar graphs, etc.)



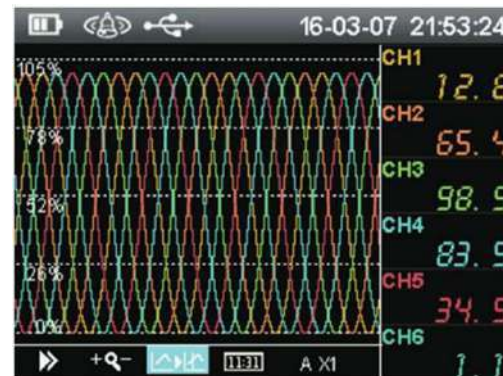
Data screen



Bar-graph screen



Real-time trend screen

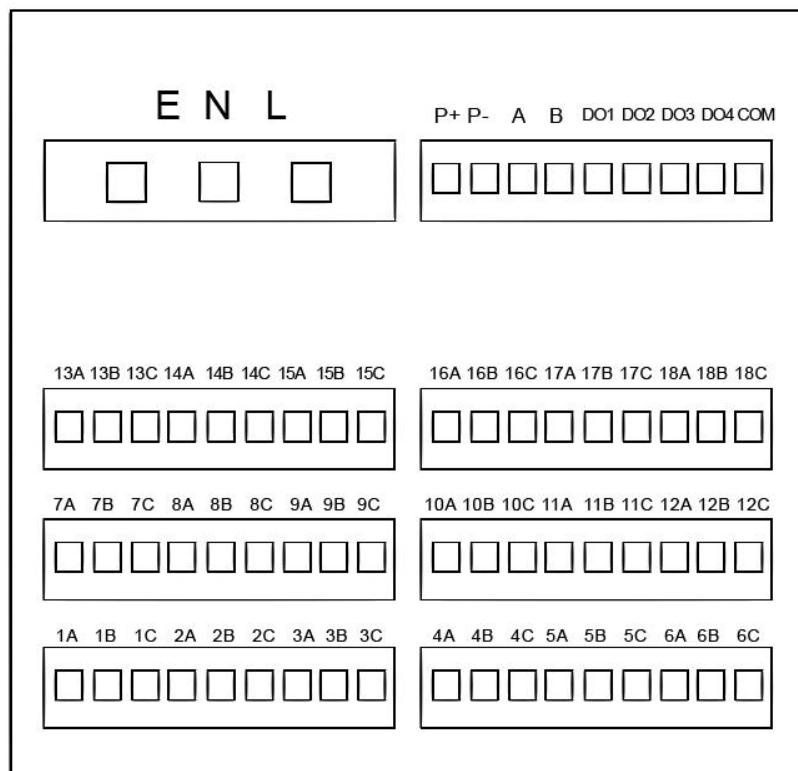


historical trend screen

- Data Saving Function
 - Internal memory:
 - Medium: Flash memory
 - Capacity: 48MB
 - Event data file sample time
 - Measurement CH=10 channels computation CH=0 channels

Save interval(s)	1s
Total sample time	8.9 days

- Relay Function
- relay out channels: Up to four
- Relay types: High and low limits. Relays are normally open contacts. Contact capacity :2A /250VAC
(resistance load)
- Alarm Output Relays :2A/250v
- Power distribution function:150mA, 24 VDC.



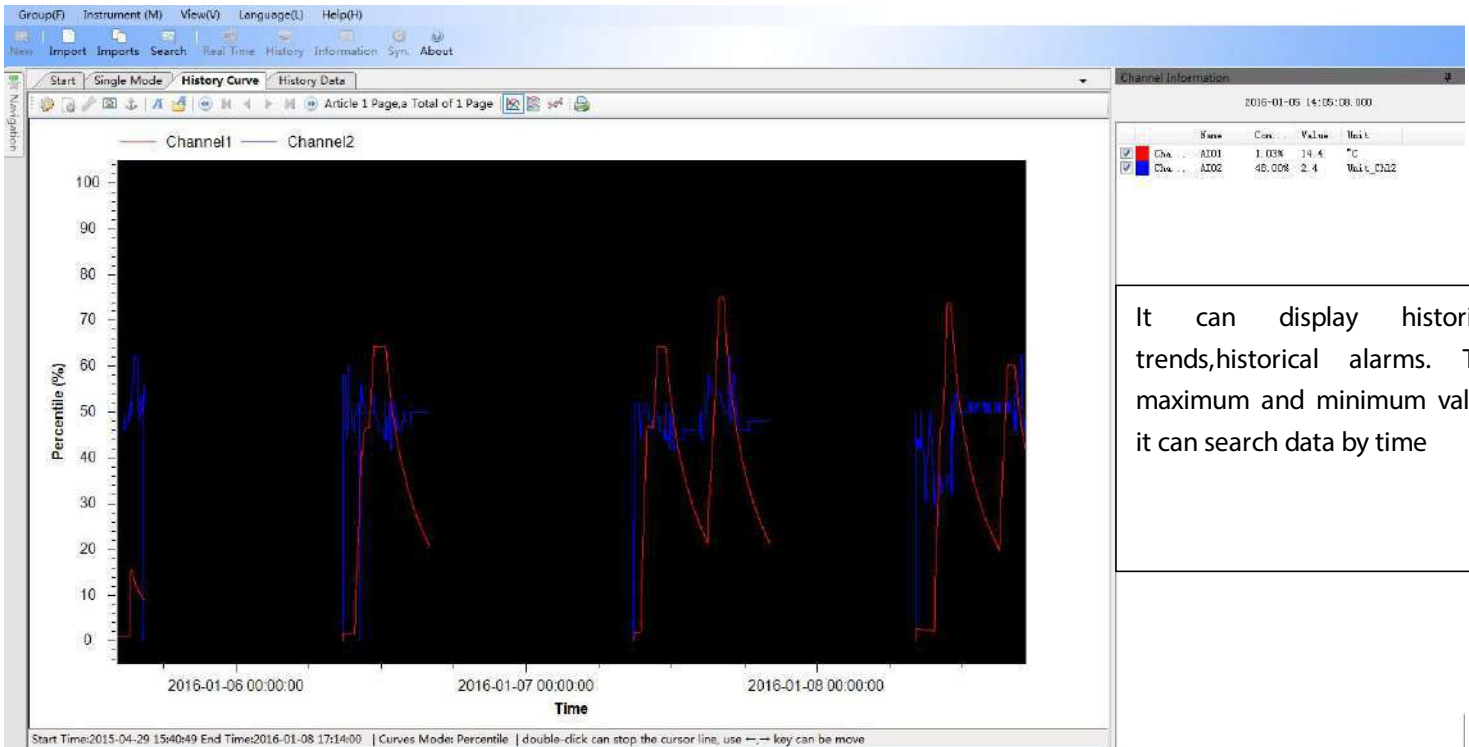
Terminal Arrangement

- Power terminals (E N L)
- Power distribution (P+ P-)
- Communication terminal RS485 (A B)
- Alarm relay output terminal No.1-4 (DO1 DO2 DO3 DO4 COM)

- Channel1 to channel18 Measuring input terminal

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Application Software



No.	Time	AI01 (°C)	AI02 (Unit_Ch12)
8053923	2016-01-08 17:14:00.000	593.2	2.4
8053922	2016-01-08 17:13:00.000	593.6	2.3
8053921	2016-01-08 17:12:00.000	597.4	2.3
8053920	2016-01-08 17:11:00.000	600.8	2.4
8053919	2016-01-08 17:10:00.000	604.5	2.4
8053918	2016-01-08 17:09:00.000	607.9	2.4
8053917	2016-01-08 17:08:00.000	611.7	2.4
8053916	2016-01-08 17:07:00.000	615.4	2.4
8053915	2016-01-08 17:06:00.000	619.2	2.4
8053914	2016-01-08 17:05:00.000	622.9	2.4
8053913	2016-01-08 17:04:00.000	626.6	2.4
8053912	2016-01-08 17:03:00.000	630.7	2.4
8053911	2016-01-08 17:02:00.000	634.5	2.5
8053910	2016-01-08 17:01:00.000	638.4	2.5
8053909	2016-01-08 17:00:00.000	642.4	3.0
8053908	2016-01-08 16:59:00.000	646.7	3.1
8053907	2016-01-08 16:58:00.000	650.9	3.1
8053906	2016-01-08 16:57:00.000	655.1	3.1
8053905	2016-01-08 16:56:00.000	659.2	3.0
8053904	2016-01-08 16:55:00.000	663.6	3.0
8053903	2016-01-08 16:54:00.000	668.0	3.0
8053902	2016-01-08 16:53:00.000	672.4	3.0
8053901	2016-01-08 16:52:00.000	676.9	3.0
8053900	2016-01-08 16:51:00.000	681.7	3.0
8053899	2016-01-08 16:50:00.000	686.1	3.0
8053898	2016-01-08 16:49:00.000	690.8	3.0
8053897	2016-01-08 16:48:00.000	695.4	2.9
8053896	2016-01-08 16:47:00.000	700.2	2.9

Total 1800 Numbers | Press Ctrl + A, Ctrl + C, Ctrl + V to export data to Excel.

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Start | Single Mode | History Curve | History Data

Instrument Name	Create Time	Group Path
Default	2016-06-08 14:02:34	C:\Program Files (x86)\nHIS\vmHIS 7.1\Project\Default
1	2016-06-08 19:10:50	C:\Program Files (x86)\nHIS\vmHIS 7.1\Project\1
2	2016-06-18 10:01:39	C:\Program Files (x86)\nHIS\vmHIS 7.1\Project\2
20160618111944	2016-06-18 11:19:41	C:\Program Files (x86)\nHIS\vmHIS 7.1\ProjectTemp\20160618111944

Use | Select the group , press Enter open the group

There shows the data group name,create time and group path. Use to select the group, press Enter open the group

Start | Single Mode | History Curve | History Data

Information
 Group Name: 20160618111944 Instrument Name: Meter001

List
 Condition: None Search Save

File Name	Start time	End Time	Belongs	Get the type of...	Table
Temporary	2015-04-29 15:40:48	2016-01-08 17:14:00	Meter001	Import File	Ts120160618111944

Channel No.	Item	Unit	Lower	Upper	Description	Custom
<input checked="" type="checkbox"/> 1	AZ01	°C	0.0	1400.0	Desc_Ch11	User_Ch11
<input checked="" type="checkbox"/> 2	AZ02	Unit_Ch12	0.0	5.0	Desc_Ch12	User_Ch12

All Reverse View

This interface shows the file list,file name and the channel number. The maximum and minimum value of the signal. can choose which channel to view.



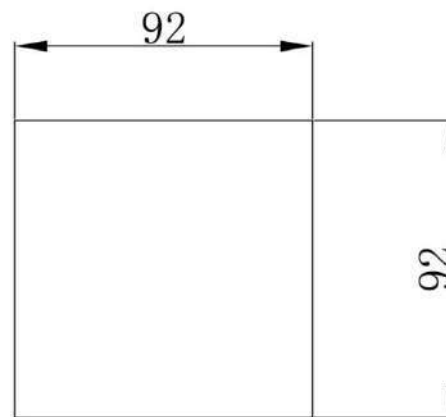
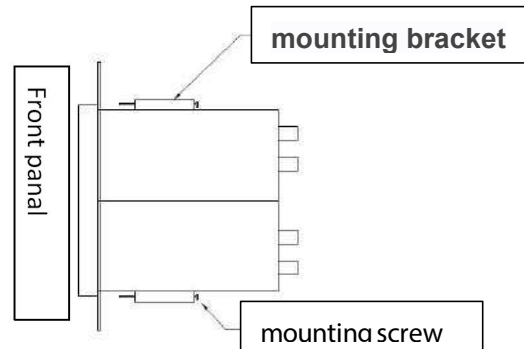
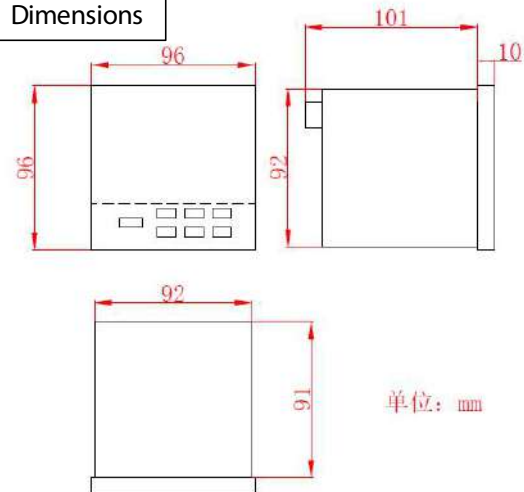
• Installation

Operation environment will not only affect the normal use of the instrument, and also related to the maintenance and calibration work. Operation environment should observe the following requirements:

Indoor installation

- Ambient temperature range: (0~50)
- Ambient humidity: 10% to 85% (non condensing)
- Ventilation requirements: well ventilated, avoid instrument internal temperature is too high
- Vibration interference: Less mechanical vibration
- Air composition: not easily produce condensate, non-corrosive gas or flammable gases
- Induction interference: no strong inductive interference, not easy to generate static electricity, magnetic field, or noise
- Installation lactation: please keep Horizontal, not til
- Allowable Panel Thickness: 1.5 to 6.0mm
- Weight : 0.37kg

Dimensions



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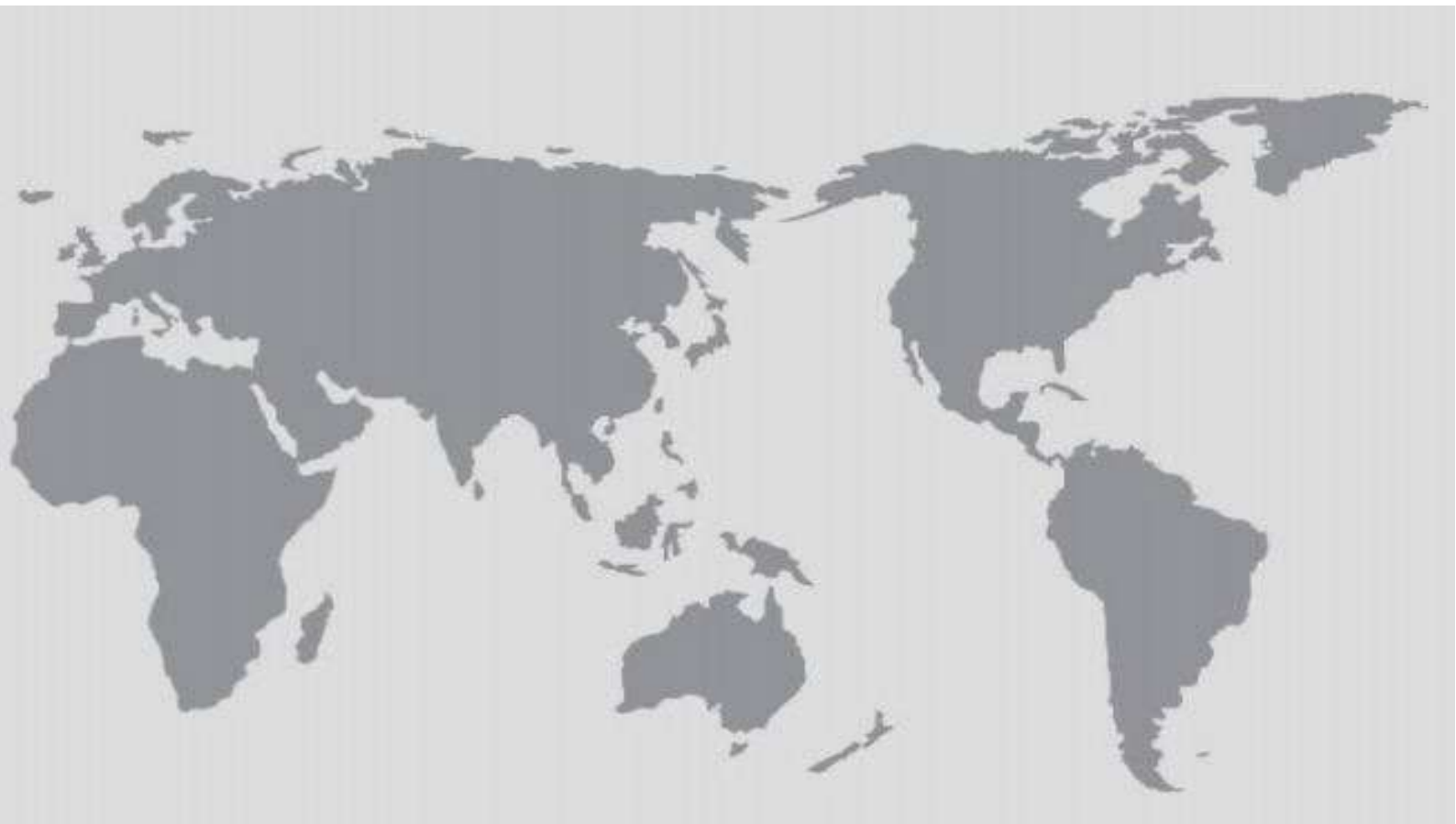
Ordering Code

Paperless recorder													
Model	Form											Specification	
SUP-	R96												No.
		01											1 channel output
		02											2 channel output
		03											3 channel output
	
		18											
Frequency Input				F0									None
				F1									1 frequency input
Relay output					00								None
					01								1 relay out
					02								2 relay out
					03								3 relay out
					04								4 relay out
Flow operation						O							None
						L							Flow operation
						F							Temperature compensation
Communication							T0						None
							T1						RS-232
							T2						RS-485
Analog output								A0					None
								A1					1 channel analog output
Power distribution									P0				None
									P1				1 channel power distribution
USB connection										0			None
										1			USB
Power supply											A		AC176-264V

Example: SUP-R9606-F0-00-O-T0-A1-P0-1-A

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