➢ **Input type table**

Input code	Input signal type	Measuring range	Resolution	Match sensor/transmitter	Input impedance
01	B	400～1800℃	1℃	Pt_{30}～Pt_6 thermocouple	≥1MΩ
02	S	0～1600℃	1℃	Pt_{10}～Pt thermocouple	
03	K	0～1300℃	1℃	NiCr～NiSi thermocouple	
04	E	0～1000℃	1℃	NiCr～CuNi thermocouple	
05	T	0～320.0℃	0.1℃	Cu～CuNi thermocouple	
06	J	0～1200℃	1℃	Fe～CuNi thermocouple	
07	WRe3-25	0～2300℃	1℃	WRe 3～WRe 25 thermocouple	
08	Pt 100	-200～650℃	1℃	Pt thermo resistance R_0=100Ω	≥10KΩ
09	Pt 100.1	-99.9～320.0℃	0.1℃	Pt thermo resistance R_0=100Ω	
10	Cu 50	-50.0～150.0℃	0.1℃	Cu thermo resistance R_0=100Ω	
11	0～20 mV	-1999～9999	Highest 1.6μV	Pressure sensor	≥1MΩ
12	4～20 mA		Highest 1.3μA	DDZ – III transmitter	≤250Ω
13	0～10mA		Highest 0.8μA	DDZ – Ⅱ transmitter	
14	1～5V		Highest 0.3 mV	DDZ – III transmitter	≥4.7MΩ
15	0～5V		Highest 0.4 mV	DDZ – Ⅱ transmitter	
16	0～20 mA		Highest 1.6μA	DDZ – Ⅱ transmitter	≤250Ω
17	30～350Ω		Highest 2.6mΩ	Remote pressure meter	≥10KΩ
18	Special signal	User specify (offer signal type, division number, or corresponding formula)			
19	4～20 mA evolution	-1999～9999	Highest 1.3μA	DDZ – III flow transmitter	≤250Ω
20	0～10mA evolution		Highest 0.8μA	DDZ – Ⅱ flow transmitter	
21	1～5V evolution		Highest 0.3 mV	DDZ – III flow transmitter	≥4.7MΩ
22	0～5V evolution		Highest 0.4 mV	DDZ – Ⅱ flow transmitter	
23	Full switch input	Not include function which code is 17, if need then explain please.			

【Intelligent multi-channel data-logging display controller】

> Summarize

Intelligent multi-channel data-logging display controller adopt advanced microprocessor for smart control, It is suitable for display and control temperature, humidity, pressure, liquid level, instantaneous flow, speed and so on in many physical quantity inspect signal, and can data-logging multi-channel measure signal. it also can carry on high-accuracy linear correction to various non-linear input signals.

Each input port all have function of universal signal input and single channel input, and each channel can input the different type signal at the same time. They only need to simple selection by instrument's menu when input signal is full switching, namely can realized lightly switching in different type input signal (a variety of thermocouple, thermo resistance, standard voltage/current signal), and improved universality and reliability of instrument.

Control output has two kinds: each channel unite alarm / transmit output; each channel respectively independent alarm /transmit output. Unite alarm type again classified into: alarm memory and alarm no memory type. Input/output loop all adopt photoelectric isolation, which have the better anti-jamming ability.

There are two kinds display for high-brightness LED numeric and the whole Chinese large screen LCD liquid crystal. They can take serial communication interface. The whole machine uses cassette insert construction, easy to installation.

➢ **Outline dimension and open dimension**



Less then 16 channels outline dimension：160×80×140mm

32 channels outline dimension：160×80×252mm

Open hole dimension：$152^{+0.7}_{-0}$ ×$76^{+0.7}_{-0}$ mm



less then 16 channel outline dimension：80×160×140mm

32 channels outline dimension：80×160×252mm

Open hole dimension：$76^{+0.7}_{-0}$ ×$152^{+0.7}_{-0}$ mm

> Type spectrum table for intelligent multi-channel data-logging display controller

Model										Explanation
WP-	□	□□□	-□	□	□□	-□	□	□	-□	
Outline feature	D									Double-screen numeric horizontal type display
	S									Double-screen numeric vertical type display
	MD									Liquid crystal horizontal type display
	MS									Liquid crystal vertical type display
Channel and control		806								Eight-channels data-logging measurement display
		807								Eight-channels data-logging measurement with unite alarm
		808								Eight-channels data-logging respectively output measurement controller (note 2)
		809								Sixteen-channels data-logging measurement display
		816								Sixteen-channels data-logging measurement with unite alarm
		832								32-channels data-logging measurement with unite alarm
Communication mode			0							No communication interface
			2							RS-232C communication interface
			8							RS-485 communication interface
Output mode				1						Relay control or alarm output
				2						(4～20)mA output
				3						(0～10)mA output
				4						(1～5)V output
				5						(0～5)V output
				6						SCR zero crossing -trigger pulse output
				7						SSR control signal output
				8						Special specification transmission output
Input type					□□					See “input type table”
First alarm						N				No control/alarm
						H				First alarm is high limit alarm
						L				First alarm is low limit alarm
Second alarm							□			Same as first alarm mode
Feed output								P		DC24V feed output (no feed can be omitted)
Supply mode										AC220V linear power supply (can be omitted)
									T	AC (90～265) switch power supply
									W	DC24V supply power

★ Note 1: 8-channel respective output and 16-channel data logging instrument have aviation plug and post type connection, post type is approved when out of factory, if need aviation plug, explain while ordering, please connection mode of 32 –channel data logging instrument only has aviation plug.

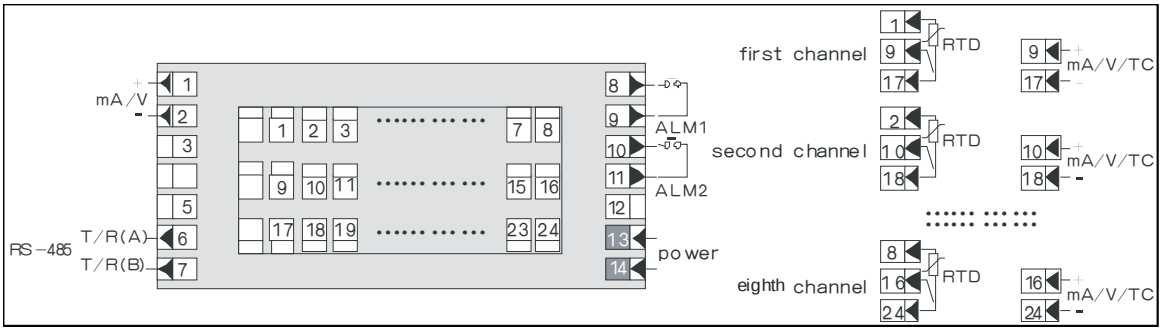
2. Respective output is 8-channel up limit + 8-channel down limit control alarm output or 8-channel respective transmitting output, output relay or transmitting select one.

Option as an example: WP-D806-02-23-N-T; WP-MD832-81-23-HL-T

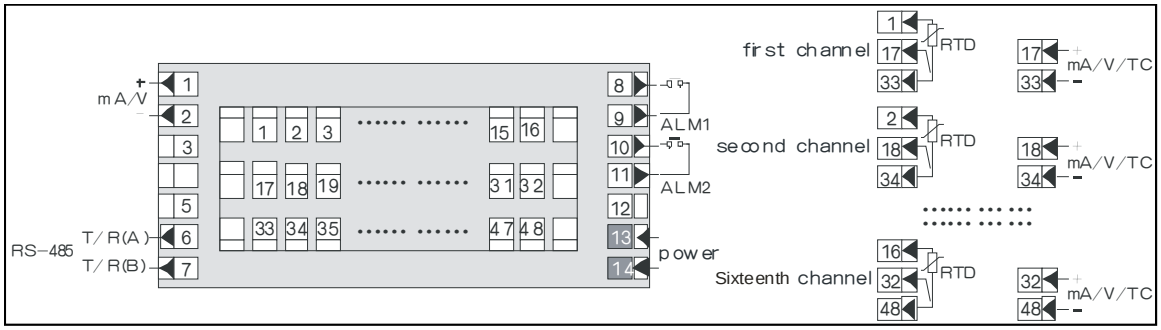
➢ **Wiring diagram**

>> Post type wiring diagram (unity output)

8-channel

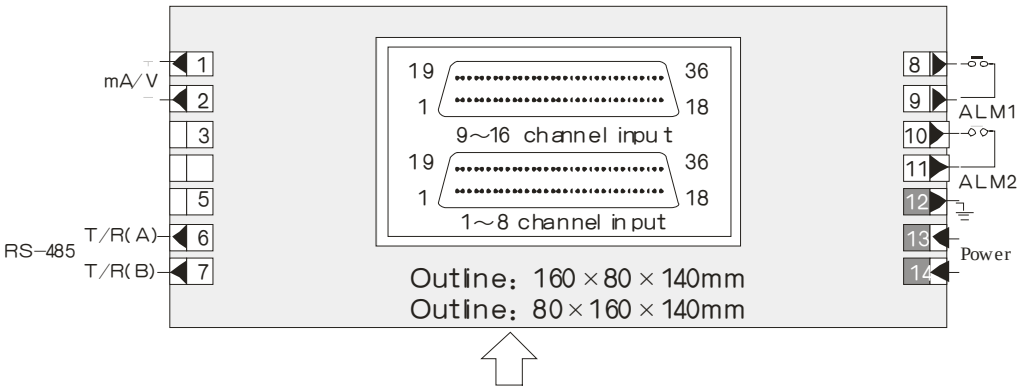


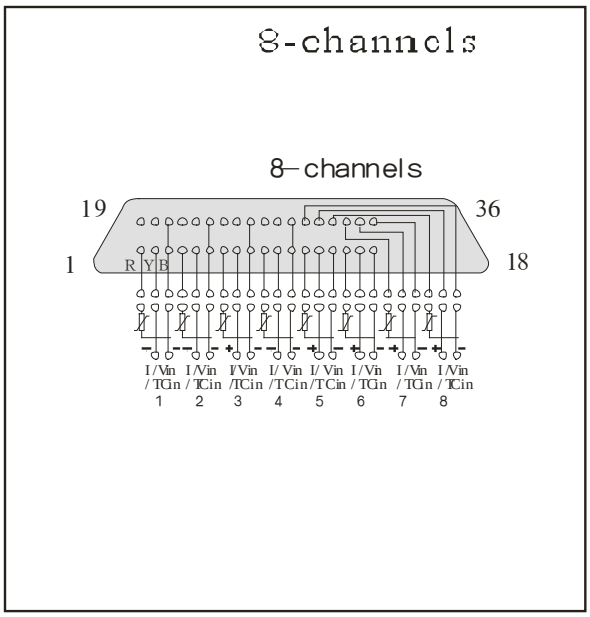
16-channels

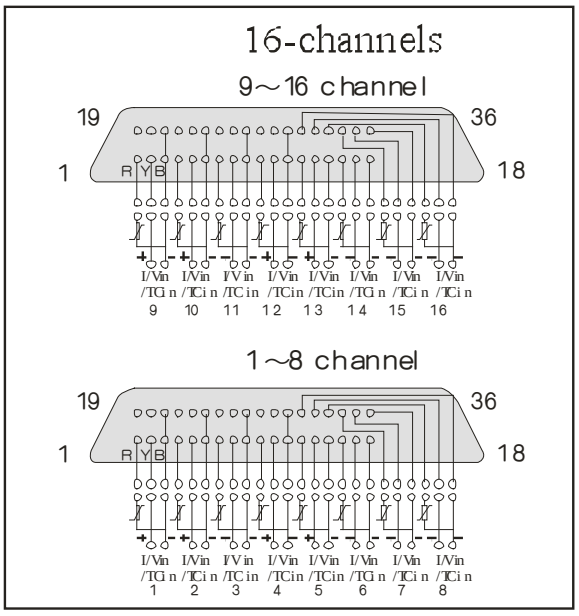


Aviation plug mode

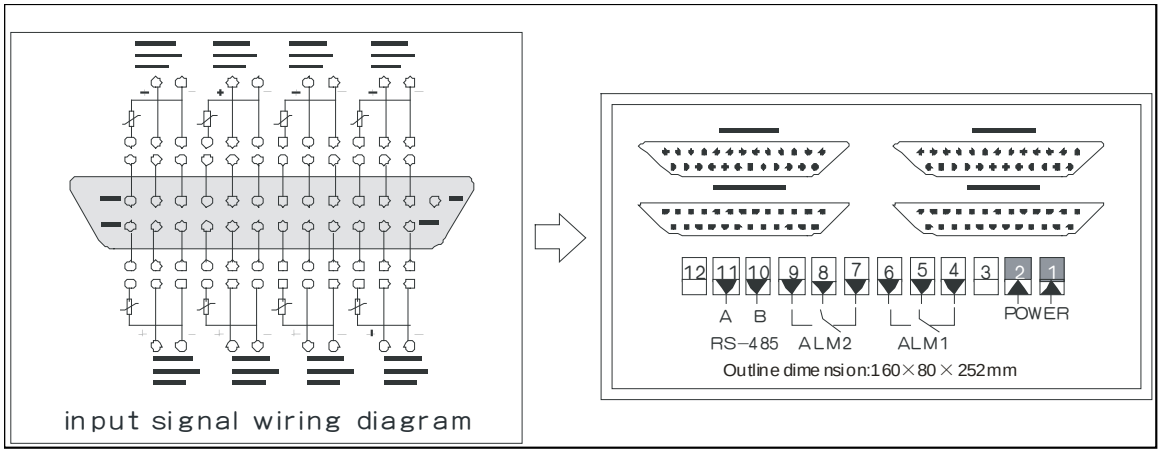
>> Aviation plug mode wiring diagram



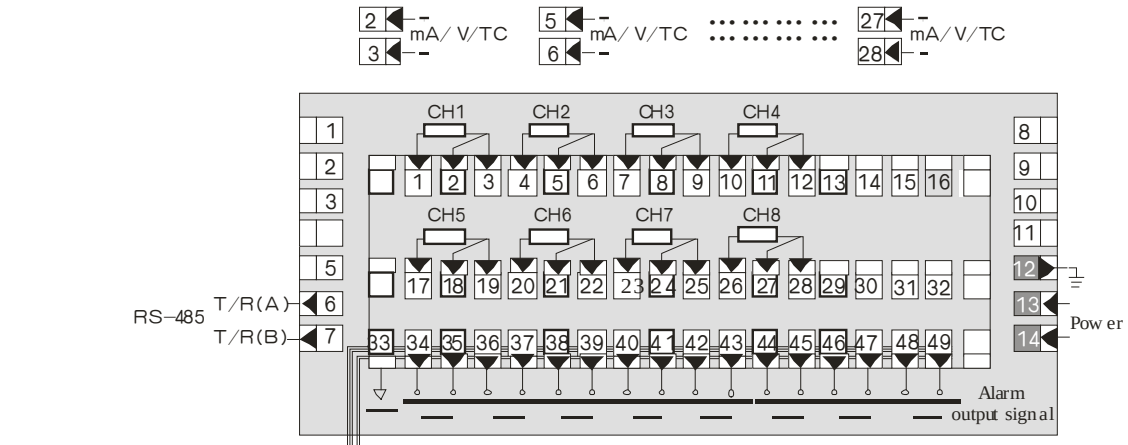




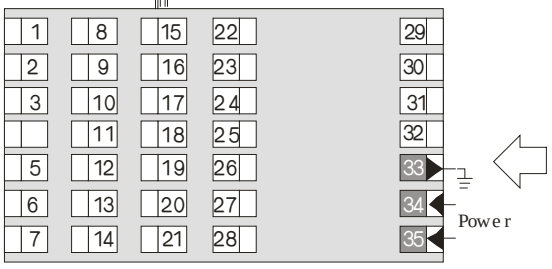
32-channels



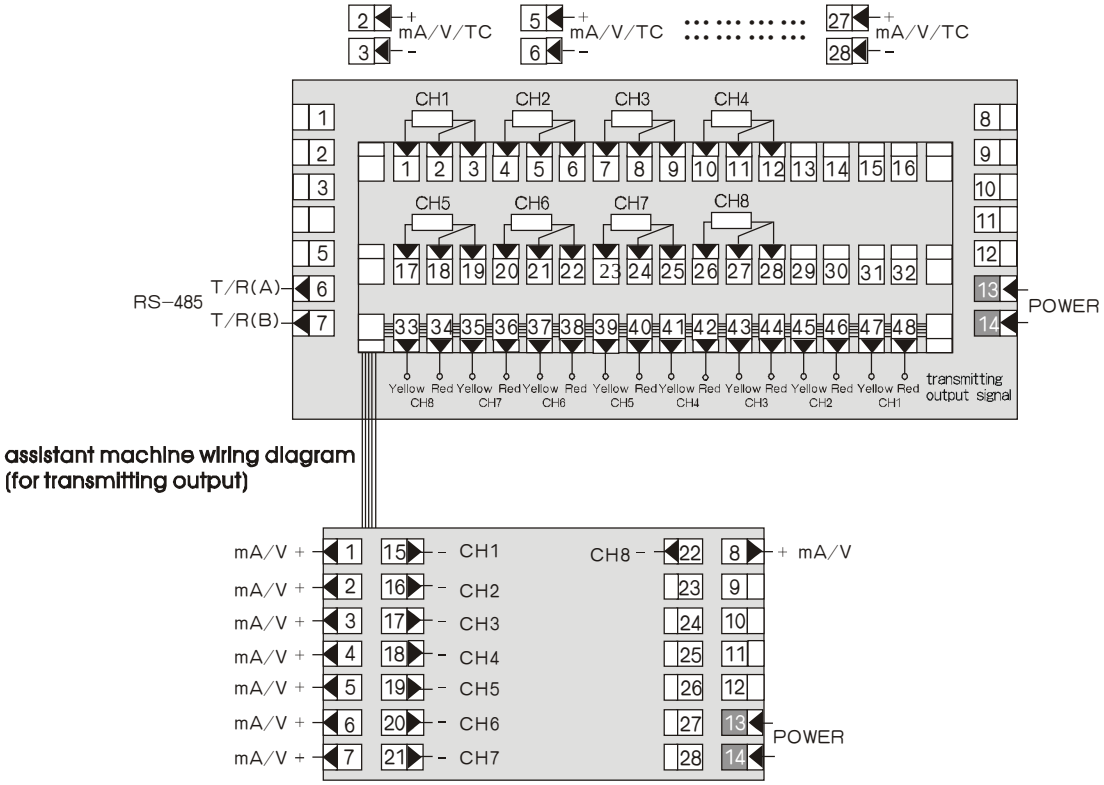
>> Post type wiring diagram (respectively output)



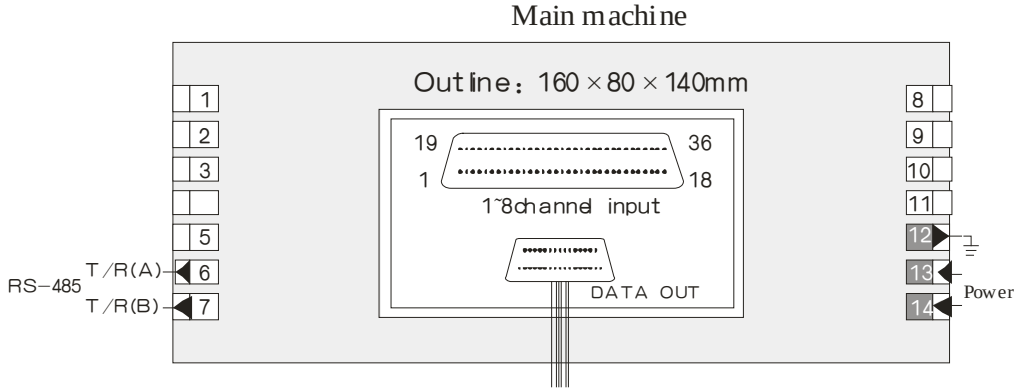
Assistant machine wiring diagram(for relay output)



Channel	AL1		AL2	
First channel	1	8	15	22
Second channel	2	9	16	23
Third channel	3	10	17	24
Fourth channel	4	11	18	25
Fifth channel	5	12	19	26
Sixth channel	6	13	20	27
Seventh channel	7	14	21	28
Eighth channel	29	30	32	33



>> Aviation plug type wiring diagram (respective output)



8-channels input wiring diagram

