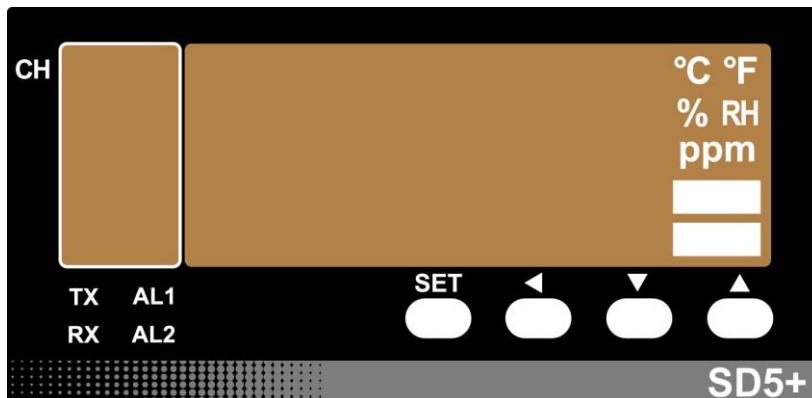


SD5 5 Channels Universal Monitoring Indicator



■ Front Panel description:

1. CH - Tells you which channel is being displayed in PV display above CH-1~CH-5
2. AL1 – Alarm 1 indicator. The alarm indicator will blink if you have selected the time function while timer alarm is counting time.
3. AL2 - Alarm 2 indicator. The alarm indicator will blink if you have selected the time function while timer alarm is counting time.
4. TX/RX - When the TX and RX indicators are blinking respectively it indicates that the communication function is working.

■ Keypad description:

1. Press **SET** once to access the parameters in first level.
2. Press the **SET + ←** keys together for 5 seconds to access the second level.
3. After accessing the second level, then press **SET + ←** keys together for 5 seconds to access the second level.
4. Press **SET** once to access the next programmable parameter.

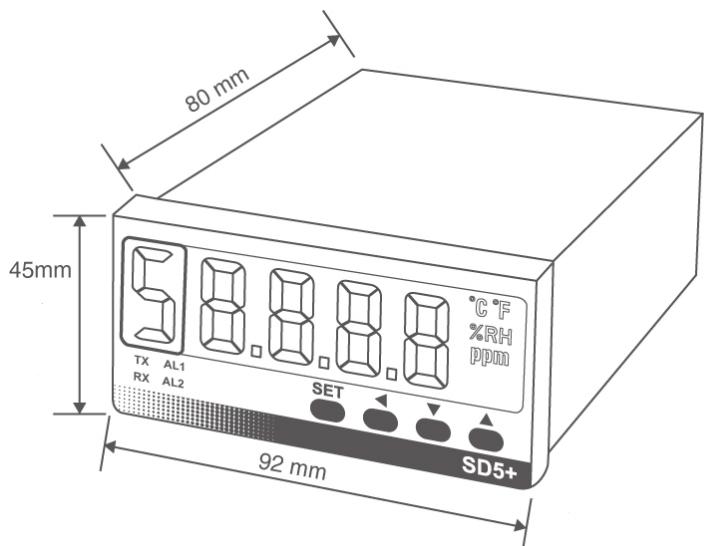
↑ Press to increase the set value or parameter value.

↓ Press to decrease the set value or parameter value.

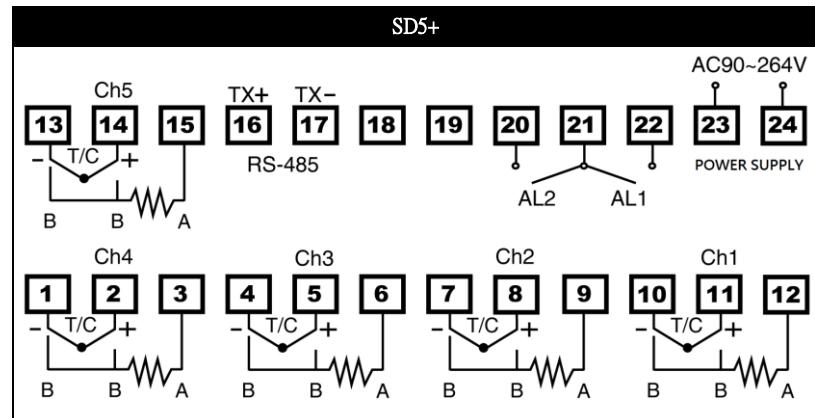
7. Press the **SET + ↑** once together to return to normal position

■ Panel Cutout:

(Cutout) D: 80mm x H: 45mm x W: 92mm



■ Wiring Diagram:



■ Wiring Notes:

1. Before wiring, check the controller label for correct model number and options.
2. Mains power can be ac or dc between 90 and 264 volts and always goes on T23 and T24.
3. Terminals T20, T21 and T22 are used for the alarms.
4. Terminals T16 and T17 are used for the RS485 comms.
5. For thermocouple input, use the appropriate compensation wire. And note the polarity of the input signal wiring
6. To avoid noise induction, keep input signal wires away from power lines.

7. Prepare the panel cutout with proper dimensions (92 + 0.5 and 45 +0.5 mm)

■ PV Display examples:

Channel 1 Signal



Channel 2 Signal



Channel 3 Signal



Channel 4 Signal



Channel 5 Signal



■ First Level

Press  once to access the parameters in first level.

Parameter	Description	Range	Default
1PVOF	1PVOF	Process value offset of input channel 1. Use PV+PVoF to offset the PV indication from the actual PV.	-1000 ~ 2000 (-100.0 ~ 200.0)
2PVOF	2PVOF	Process value offset of input channel 2. Use PV+PVoF to offset the PV indication from the actual PV.	-1000 ~ 2000 (-100.0 ~ 200.0)
3PVOF	3PVOF	Process value offset of input channel 3. Use PV+PVoF to offset the PV indication from the actual PV.	-1000 ~ 2000 (-100.0 ~ 200.0)
4PVOF	4PVOF	Process value offset of input channel 4. Use PV+PVoF to offset the PV indication from the actual PV.	-1000 ~ 2000 (-100.0 ~ 200.0)
5PVOF	5PVOF	Process value offset of input channel 5. Use PV+PVoF to offset the PV indication from the actual PV.	-1000 ~ 2000 (-100.0 ~ 200.0)
1A1SP	1A1SP	Alarm 1 set value of input channel 1	-1999 ~ 9999 20.0
2A1SP	2A1SP	Alarm 1 set value of input channel 2	-1999 ~ 9999 20.0
3A1SP	3A1SP	Alarm 1 set value of input channel 3	-1999 ~ 9999 20.0
4A1SP	4A1SP	Alarm 1 set value of input channel 4	-1999 ~ 9999 20.0
5A1SP	5A1SP	Alarm 1 set value of input channel 5	-1999 ~ 9999 20.0
1A2SP	1A2SP	Alarm 2 set value of input channel 1	-1999 ~ 9999 20.0
2A2SP	2A2SP	Alarm 2 set value of input channel 2	-1999 ~ 9999 20.0
3A2SP	3A2SP	Alarm 2 set value of input channel 3	-1999 ~ 9999 20.0
4A2SP	4A2SP	Alarm 2 set value of input channel 4	-1999 ~ 9999 20.0
5A2SP	5A2SP	Alarm 2 set value of input channel 5	-1999 ~ 9999 20.0

■ Second Level

Press the  +  keys together for 5 seconds to access the second level.

Parameter	Description	Range	Default
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 	A1FU	Alarm 1 function. (1)  : Alarm function off (2)   : Process high alarm (3)  : Process low alarm	  	
 	A1MD	Alarm 1 mode. Used with  . If A1MD=  , alarm mode is cancelled.	   	
 	A1HY	Hysteresis for Alarm 1.	0-2000	0
 	A2FU	Alarm 2 function. (1)  : Alarm function off (2)   : Process high alarm (3)  : Process low alarm	  	
 	A2MD	Alarm 2 mode. Used with  . If A2MD=  , alarm mode is cancelled.	   	
 	A2HY	Hysteresis for Alarm 2	0-2000	0
 	CHNO	This is where you set the number of channels you are using. If 5 input channels are connected,  is set to 5.	1~5	5
 	SCAT	Scan rate for all channels	1~10 seconds	3 second s
	ADDR	RS485 communication address 2	1-255	1
	BAUD	Communication baud rate	9.6K 19.2K 38.4K	9600bp s 19200b ps 38400b ps

			57.6K 115.2K	57600b ps 115200 bps
	RTU	Transmission Format	081、E81 N82、N81	N82
	LOCK	Parameter lock	Default Setting	
 This security feature locks out selected levels or single parameters prohibiting tampering and inadvertent programming changes. See the table below.				
		0001	All parameters are locked out.	
		00 0	First level and second level are adjustable.	
		0011	First level is not adjustable, but second level is adjustable.	
		0100	All parameters in all levels are opened.	

■ Third Level

After accessing the second level, then press  +  keys together for 5 seconds to access the second level.

	Below parameters are independent settings for channel 1~5.	    
	Parameter	Description
	Range	Default
	TYPE	Inputs selection are as below : Thermocouple, RTD, Line(DC mA, DC V),RSP(RS-485) See the range below.
	TYPE	UNIT
	RSP	-1999 ~ 9999 
	LIN E	-1999 ~ 9999 
	D-P T	°C 850 ~ -200 °F 1562 ~ -328
	R	°C 0 ~ 1750 °F 32 ~ 3182
	T	°C 400 ~ -270 °F 752 ~ 454
	K	°C 1370 ~ -50 °F 2498 ~ -58
	J	°C 1000 ~ -50 °F 1832 ~ -58

Unit	UNIT	Measuring unit of the process value(CH1~CH5)	LED1 : °C LED 2 : °F LED 3 : % LED 4 : RH LED 5 : %RH LED 6 : ppm LED 7 : Paste the unit sticker by requirement	°C
dP	DP	Decimal point selection. 0.01 and 0.001 resolution. (Linear input only) After changing the decimal point, please reconfirm the parameter values below.	0000 : No decimal point 000.0: 0.1 resolution 00.00: 0.01 resolution 0.000: 0.001 resolution	0000
Lnl o	LNLO	Low scale of linear input)(4~20mA or 0~10V)	-1999~9999	0
LoHi	LNHI	High scale of linear input)(4~20mA or 0~10V)	-1999~9999	500
CUE	CUT	Used to specify the process value when linear input (type=line) signal is out of range. none : this function is not used Lo : The process value will be limited to 4mA when input signal is lower than the scale range. Hi : The process value will be limited to 20mA when input signal is higher than the scale range. HiLo : The process value will be limited within the range of LoLt to HiLt when input signal is out of scale.	none Lo / Hi / HiLo	none

※ : Specify when ordering

Parameter	Description		Range	Default
LED8	LED 8	LED 8 ON/OFF (Paste the unit sticker by requirement)	0 : OFF 1 : ON	0

■ Alarm Mode

Alarm mode	Code	Description
A Ind A2nd	none	Disable the alarm mode
	Stdy	Standby mode. When selected, prevents an alarm on power up. The alarm is active after alarm condition has been cleared and then alarm occurs again.
	LATCH	Latch mode. When selected, the alarm output and indicator latch as the alarm occurs. The alarm output and indicator will not change its state even if the alarm condition has been cleared unless the power is off.
	SEL&R	Both standby and Latch mode are applied.