SDC25/26 Single Loop Controller

Overview

The DigitroniK SDC25/26 is a digital indicating controller featuring multi-range inputs and PID control system using new algorithms "RationaLOOP" and "Just-FiTTER".

Up to two control output points (this number of points may vary depending on the model) can be used, which are selectable from the relay contact, voltage pulse, and current.

The smart loader package ensures easy setting operation and monitoring.

This controller is compliant to the IEC directives and the CE marking.

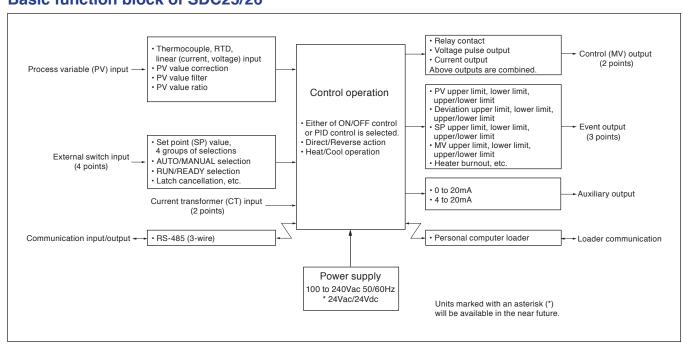
Features

- Space saving design with a depth of 65mm.
 The mask of the front panel is also only 5mm thick.
- High accuracy of ± 0.3 %FS and sampling cycle of 0.3 s (seconds).
- Multi-range inputs are available for selection, where the input type can be freely changed among thermocouple, RTD, current, and voltage.
- The control method can be selected from any of the ON/ OFF control and PID control using "RationaLOOP" + "Just-FiTTER".
- The heat/cool control can be achieved using two control output points and event outputs.



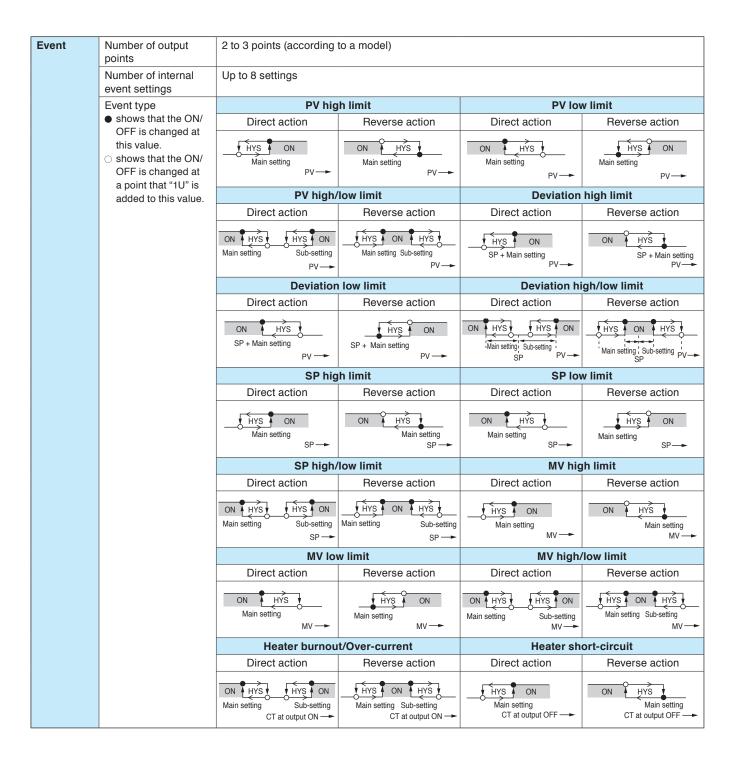
- The PC loader port is provided as a standard function.
- The control output types available for selection are relay, voltage pulse, and current outputs. The heat/cool control can be achieved by interfacing with the 2nd control output in combination with these outputs.
- Event 3 points or 2 points (independent contact), CT input 2 points, DI 4 points, and RS-485 can be selected in combination.
- The smart loader package (SLP-C35) can be used.

Basic function block of SDC25/26



Specifications

opcomo										
PV input	Input type	Multi-range of inputs - thermocouple, RTD, DC current and DC voltage								
	Input sampling time	0.3 s								
	Input bias current	0 to 5 '	ypica nge o V, 1 t		RTD or A-wire burnout: Upscale + AL01 B-wire or C-wire burnout: Upscale + AL01, 03					
	Burnout	Thermocouple input: Upsca RTD input: Upsca DC voltage input: Upsca (however for the DC current input: Upsca (however for the	More than 2-wire burnout: Upscale + AL01							
Indications and setting	PV, SP indication method Number of setting points	4-digit, 7-segment LED (PV: Upper green display, SP: Lower orange display) Max. 4 points								
	Setting range	·	Lower to higher limit value of the PV range (SP upper/lower limit available)							
	Multi-status indicator			or RUN/READY status is indicated						
	Indication accuracy	±0.3 % FS±1 digit		nocouple, the accuracy is ±0.6 % F						
	Indication range	See Table 1.								
Control	Output type	Relay contact		Voltage pulse	Current					
output	Control action	Time proportional PID		Time proportional PID	Continuous PID					
	Number of PID groups	Max. 4 groups		Max. 4 groups	Max. 4 groups					
	PID auto-tuning	Automatic PID value setting However, one of the followir • Standard • Quick disturbance respor • Less up/down fluctuations	octed:							
	Output rating	NO side: 250 Vac/30 Vdc, 3 A (resistive load) NC side: 250 Vac/30 Vdc, 1 A (resistive load) Service life: NO side: 50,000 cycles or m NC side: 100,000 cycles or m Min. opening/closing time: 250	nore	Open terminal voltage: 19 Vdc±15 % Internal resistance: 82 Ω±0.5 % Allowable current: Max. 24 mAdc Min. OFF/ON time: When 1 s or less: 1 ms When 2 to 9 s: Cycle time x 1 ms When 10 s or longer: 250 ms	Output type: 0 to 20 m Adc or 4 to 20 mAdc Allowable load resistance: Max. 600 Ω Output accuracy: ±0.3 % FS (however, ±1 % FS for 0 to 1 mA					
	Cycle time (s)	5 to 120	_							
	PID control	Proportional band (%FS)	0.1	0.1, 0.25, 0.5, 1 to 20 1 to 999.9						
	1 15 control	Integral time (s)	_	to 9999						
		Derivative time (s)	+	to 9999						
		Manual set (%)	+	0.0 to +110.0						
	Just-FiTTER	Overshoot suppression coefficient	_	to 100						
	ON/OFF control	Operating differential (°C)	+ -	to 9999 digit						
	Control operation selection	` ' '		nowever, reverse action only for he	eat/cool control)					
	Heat/Cool control selection	Control output and event ou			, and edge. ed					
Auxiliary	Output type	0 to 20 mAdc or 4 to 20 mA	tput,	, adamary output						
output	Load resistance	Max. 600 Ω								
	Output accuracy	±0.3 %FS (however, ±1digit	for 0) to 1 mA)						
External	Number of inputs	Max. 4 points	101 0							
contact input (DI)	Function	Up to 4 kinds of setting value (SP) selections, PID group selection, RUN/READY selection, AUTO/MANUAL selection, Auto tuning stop/start, Control action Direct/Reverse selection, SP ramp enable/disable, PV value hold, Max. PV value hold, Min. PV value hold, Timer start/stop, All DO latch cancellation								
	Input rating	Non-voltage contact or oper	n col	lector						
	Min. detection holding time	0.6 s or longer								
	Allowable ON contact resistance	Max. 250 Ω								
	Allowable OFF contact resistance	Min. 100 kΩ								
	Allowable ON-state residual voltage	Max. 1.0 V								
		5 5 Vdc+1 V								
	Open terminal voltage	5.5 Vdc±1 V								



Event

Event type

Loop diagnosis 1

The event is turned ON when any change in PV corresponding to increase/decrease in MV (manipulated variable) is not observed.

This event is used to detect any fault of final control devices.

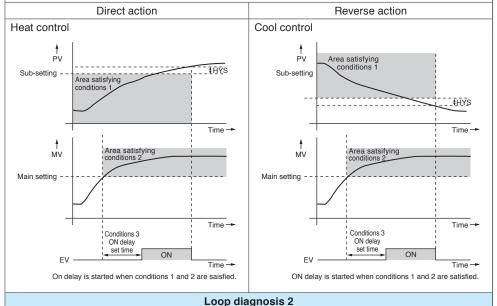
- Setting items
 - · Main setting: MV (manipulated variable)
 - · Sub-setting: PV
 - · ON delay time: Diagnosis time
- Operation specifications

The event is turned ON when the value does not reach the PV set in the sub-setting within the diagnosis time (ON delay time) even though the MV exceeding the main setting is held.

CAUTION

When setting the ON delay, it is necessary to put in "Multi-function setup".

The default setting of the ON delay before shipment is 0.0 s.



The event is turned ON when any change in PV corresponding to increase/decrease in MV (manipulated variable) is not observed.

This event is used to detect any fault of final control devices.

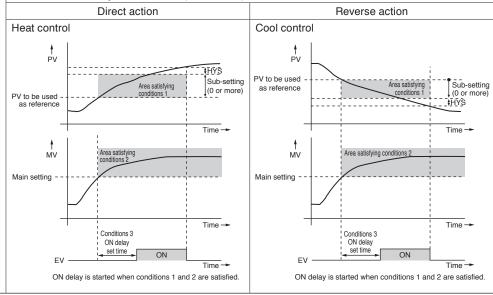
- Setting items
 - Main setting: MV (manipulated variable)
 - · Sub-setting: Change in PV from the point that the MV exceeds the main setting.
 - ON delay time: Diagnosis time
- Operation specifications

The event is turned ON when the MV exceeding the main setting is held (conditions 2) and the PV does not reach the value that the sub-setting is added to (subtracted from) the PV at the point where the MV exceeds the main setting within the diagnosis time (ON delay time) (conditions 1).

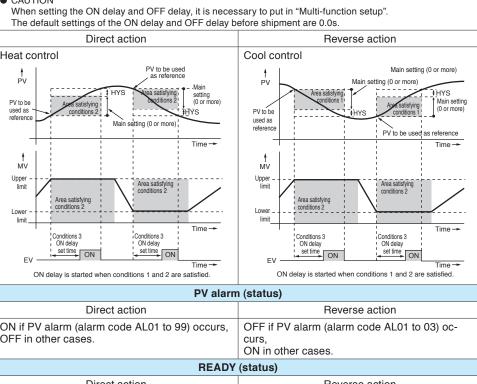
CAUTION

When setting the ON delay, it is necessary to put in "Multi-function setup".

The default setting of the ON delay before shipment is 0.0 s.



Event Loop diagnosis 3 Event type The event is turned ON when any change in PV corresponding to increase/decrease in MV (manipulated variable) is not observed. This event is used to detect any fault of final control devices. Setting items • Main setting: Change in PV from the point that the MV reaches the upper limit (100 %) or lower limit (0 %). · Sub-setting: Range of absolute value of deviation (PV - SP) allowing the event to turn OFF. · ON delay time: Diagnosis time · OFF delay time: A period of time from power ON allowing the event to turn OFF. Operation specifications · The direct action is used for the heat control. The event is turned ON when the increase in PV becomes smaller than the main setting after the diagnosis time (ON delay time) has elapsed from the time that the MV had reached the upper limit, or when the decrease in PV becomes smaller than the main setting from the time that the diagnosis time (ON delay time) has elapsed from the time that the MV had reached the lower limit · The reverse action is used for the cool control. The event is turned ON when the decrease in PV becomes smaller than the main setting after the diagnosis time (ON delay time) has elapsed from the time that the MV had reached the upper limit, or when the increase in PV becomes smaller than the main setting after the diagnosis time (ON delay time) has elapsed from the time that the MV had reached the lower limit. • The event is turned OFF regardless of other conditions when the absolute value of the deviation (PV - SP) becomes less than the sub-setting. · The event is turned OFF regardless of other conditions when a period of time after starting of operation from the time that the power has been turned ON becomes less than the OFF delay time. However, the event is turned OFF when the absolute value of the deviation is the (sub-setting - hysteresis) value or less after the absolute value of the deviation has become the sub-setting or more CAUTION Direct action Heat control Cool control PV to be used PV setting (0 or more) PV to be PV to be Η̈́ΥS used as Main setting (0 or more)



ON delay is started when conditions 1 and 2 are satisfied.	ON delay is started when conditions 1 and 2 are satisfied.						
PV alarm (status)							
Direct action	Reverse action						
ON if PV alarm (alarm code AL01 to 99) occurs, OFF in other cases.	OFF if PV alarm (alarm code AL01 to 03) occurs, ON in other cases.						
READY (status)							
Direct action	Reverse action						
ON in the READY mode. OFF in the RUN mode.	OFF in the READY mode. ON in the RUN mode.						
MANUA	L (status)						
Direct action	Reverse action						
ON in the MANUAL mode. OFF in the AUTO mode.	OFF in the MANUAL mode. ON in RUN mode.						
During AT (Auto tuning)						
Direct action	Reverse action						
ON while AT is running. OFF while AT is being stopped.	OFF while AT is running. ON while AT is being stopped.						
During	SP ramp						
Direct action	Reverse action						
ON during SP ramp. OFF when SP ramp is not performed or is completed.	OFF during SP ramp. ON when SP ramp is not performed or is completed.						
Control oper	ation (status)						
Direct action	Reverse action						
ON during direct action (cooling). OFF during reverse action (heating).	OFF during direct action (cooling). ON during reverse action (heating).						
ST (Smart Tuning) se	tting standby (status)						
Direct action	Reverse action						
ON in the ST setting standby. OFF in the ST setting completion.	OFF in the ST setting standby. ON in the ST setting completion.						

Event	Event type	Timer (status)									
		The direct and reverse action settings are disabled for the timer event.									
		When using the timer event, it is necessary to set the operation type of the DI allocation to "Timer Start/S Additionally, when setting the event channel designation of the DI allocation, multiple timer events are co from individual internal contacts (DI). Setting items ON delay time: A period of time necessary to change the event from OFF to ON after DI has been ch from OFF to ON. OFF delay time: A period of time necessary to change the event from ON to OFF after DI has been c									
		from ON to OFF. Operation specifications	n DI ON continues for ON delay time or longer.								
			hen DI OFF continues for OFF delay time or longer.								
		Di									
		Internal of	ON delay OFF delay ON								
		Internal e	Time →								
		The default settings of the O The default setting of the eve the timer event start/stop car Additionally, as one or more internal event specified by or However, when setting the e	vent channel of the DI allocation, it is necessary to put in "Multi-function setup".								
		Direct/Reverse action, stan (E1.C1 to E5.C2).	dby, and READY operations can be set when setting up each event								
	Operating differential	0 to 9999 digit									
	Output operation	ON/OFF operation									
	Output type		non for 3 points/independent contact for 2 points								
	Output rating	250 Vac/30 Vdc, 2 A (resistive load)									
	Life	100,000 cycles or more	Λ								
	Min. opening and closing specifications	5 V, 10 mA (reference value)									
Communica- tion	Communication sys- tem	Communication protocol RS-485									
		Network Multidrop, this device is provided with the slave station function 1 to 31 units max.									
		Data flow Synchronization method	Half-duplex Start/stop synchronization								
	Interface	Transmission system	Balance (differential) type								
	Interface	Data line	Bit serial								
		Communication lines	3 transmit/receive lines								
		Transmission speed	4800, 9600, 19200, 38400 bps								
		Communication distance	500 m max.								
		Protocol	RS-485 (3-wire type)								
	Message characters	Character configuration	9 to 12 bits/character								
		Data length	7 or 8 bits								
		Stop bit length	1 or 2 bits								
		Parity bit	Even parity, odd parity, or non-parity								
Loader	Communication line	3-wire									
communica-	Transmission speed	Fixed at 19200 bps									
tion	Recommended cable	Dedicated cable, 2 m long									
Current	Number of inputs	2 points									
transformer input	Detection function	·	ection of heater line break or overcurrent ection of final control devices short-circuit								
	Input object	Number of current transformer windings: 800 turns QN206A (5.8 mm-hole diameter) Optional QN212A (12 mm-hole diameter) Optional									
	Measurement current range	0.4 to 50 A									
	Indication accuracy	±5 %FS±1digit									
	Indication range	0.0 to 70.0 A									
	Indication resolution	0.1 A									
	Output	Selected from control output	1 and control output 2, or event output 1, event output 2, and event output 3.								
	Min. detection time		trol output ON time 0.3 s or more								
		Final control device short-c	Final control device short-circuit detection: Min. control output OFF time 0.3 s or more								

General	Memory backup	Semiconductor non-volatile memory									
specifications	Power supply voltage	AC power supply model: 85 to 264 Vac, 50/60 Hz±2 Hz									
	Power consumption	AC power supply mode	I: Max.	12 VA							
	Insulation resistance	Between power supply	termin	al and seconda	ary terminal, 500Vdc, 10	MΩ or more					
	Dielectric strength	AC power supply model	: Betwe	en power sup	ply terminal and seconda	ry terminal, 1500 Vac for	1 min.				
	Power ON inrush current	AC power supply mode	l: 20 A	or less							
	Operating conditions	Ambient temperature 0 to 50°C (0 to 40°C for side-by-side mounting)									
		Ambient humidity 10 to 90 %RH (no condensation allowed)									
		Vibration resistance	0 to 2	m/s ² (10 to 60	Hz for 2 hrs. in each of 2	X, Y, and Z directions)					
		Shock resistance	0 to 1	0 m/s ²							
		Mounting angle	Refer	ence plane ±10	0°						
	Transportation	Ambient temperature	-20 to	+70°C							
	conditions	Ambient humidity	10 to	95 %RH (no co	ondensation allowed)						
		Package drop test	Drop	height, 60 cm,	(1 corner, 3 sides, 6 pla	nes, free fall)					
	Console and case material	Console: Polycarbonate Case: Modified PPE									
	Case color	Light gray (DIC650)									
	Standards compliance	EN61010-1 (CE-LVD), EN61326-1 (CE-EMC) ¹ , cUL (UL61010-1) ²									
	Overvoltage category	Category II (IEC60364-4-433, IEC644-1) Panel mounting (with dedicated mounting bracket)									
	Mounting										
	Weight	SDC25: Approx. 250 g (including dedicated mounting bracket)									
		SDC26: Approx. 300 g	(includ	ing dedicated	mounting bracket)						
Standard	Part name	Model	Q'ty	Optional	Part name	Model	Q'ty				
accessories	Mounting bracket	81409654-001	2	parts (sold	Mounting bracket	81409654-001	1				
	User's manual	CP-UM-5288JE	1	separately)	Current transformer	QN206A (5.8mm-hole dia.)	1				
*1 For use in	industrial locations					QN212A (12mm-hole dia.)	1				
		r output may fluctuate by	,		Hard cover	81446915-001 (for SDC25)	1				
±10 % FS. *2 Varies depending on the model.						81446916-001 (for SDC26)	1				
Z varios do	pending on the model.				Terminal cover	81446912-001 (for SDC25)	1				
						81446913-001 (for SDC26)	1				
					Smart loader package	SLP-C35J50 (common for SDC25 and SDC26)	1				

Table 1 Input types and ranges

Input type	C01 No.	Sensor type	Range		
Thermo-	1	K	-200 to +1200°C	-300 to +2200°F	
couple	2	K	0 to 1200°C	0 to 2200°F	
	3	K	0 to 800°C	0 to 1500°F	
	4	K			
	-		0.0 to 600.0°C	0 to 1100°F	
	5	K	0.0 to 400.0°C	0 to 700°F	
	6	К	-200.0 to +400.0°C	-300 to +700°F	
	7	K	-200.0 to +200.0°C	-300 to +400°F	
	8	J	0 to 1200°C	0 to 2200°F	
	9	J	0.0 to 800.0°C	0 to 1500°F	
	10	J	0.0 to 600.0°C	0 to 1100°F	
	11	J	-200.0 to +400.0°C	-300 to +700°F	
	12	E	0.0 to 800.0°C	0 to 1500°F	
	13	E	0.0 to 600.0°C	0 to 1100°F	
	14	Т	-200.0 to +400.0°C	-300 to +700°F	
	15	R	0 to 1600°C	0 to 3000°F	
	16	S	0 to 1600°C	0 to 3000°F	
	17	В	0 to 1800°C	0 to 3300°F	
	18	N	0 to 1300°C	0 to 2300°F	
	19	PL II	0 to 1300°C	0 to 2300°F	
	20	Wre5-26	0 to 1400°C	0 to 2400°F	
	21	Wre5-26	0 to 2300°C	0 to 4200°F	
	22	Ni-NiMo	0 to 1300°C	0 to 2300°F	
	23	PR40-20	0 to 1900°C	0 to 3400°F	
	24	DIN U	-200.0 to +400.0°C	-300 to +700°F	
	25	DIN L	-100.0 to +800.0°C	-150 to +1500°F	
	26	Golden iron chromel	0.0K to 360.0°K	0.0 to 360.0°K	

! Handling Precautions

- The accuracy is ± 0.3 %FS ± 1 digit, and ± 0.6 %FS ± 1 digit for a negative area of the thermocouple.
- The accuracy varies according to the range.
 The accuracy of the No.17 (sensor type B) is ±4.0 %FS for a range of 260°C or less, ±0.4 %FS for 260 to 800°C.
 The accuracy of the No.23 (sensor type PR40-20) is ±2.5 %FS for 0 to of 300°C, and ±1.5 %FS for 300 to 800°C, ±0.5 %FS for 800 to of 1900°C.

The accuracy of the No.26 (sensor type golden iron chromel) is $\pm 1.5 \ \text{K}.$

• For ranges with a decimal point, tenths are displayed on the line underneath point.

Input type	C01 No.	Sensor type	Rar	nge
RTD	41	Pt100	-200.0 to +500.0°C	-300 to +900°F
	42	JPt100	-200.0 to +500.0°C	-300 to +900°F
	43	Pt100	-200.0 to +200.0°C	-300 to +400°F
	44	JPt100	-200.0 to +200.0°C	-300 to +400°F
	45	Pt100	-100.0 to +300.0°C	-150 to +500°F
	46	JPt100	-100.0 to +300.0°C	-150 to +500°F
	47	Pt100	-100.0 to +200.0°C	-150 to +400°F
	48	JPt100	-100.0 to +200.0°C	-150 to +400°F
	49	Pt100	-100.0 to +150.0°C	-150 to +300°F
	50	JPt100	-100.0 to +150.0°C	-150 to +300°F
	51	Pt100	-50.0 to +200.0°C	-50 to +400°F
	52	JPt100	-50.0 to +200.0°C	-50 to +400°F
	53	Pt100	-50.0 to +100.0°C	-50 to +200°F
	54	JPt100	-50.0 to +100.0°C	-50 to +200°F
	55	Pt100	-60.0 to +40.0°C	-60 to +100°F
	56	JPt100	-60.0 to +40.0°C	-60 to +100°F
	57	Pt100	-40.0 to +60.0°C	-40 to +140°F
	58	JPt100	-40.0 to +60.0°C	-40 to +140°F
	59	Pt100	-10.00 to +60.00°C	-10 to +140°F
	60	JPt100	-10.00 to +60.00°C	-10 to +140°F
	61	Pt100	0.0 to 100.0°C	0 to 200°F
	62	JPt100	0.0 to 100.0°C	0 to 200°F
	63	Pt100	0.0 to 200.0°C	0 to 400°F
	64	JPt100	0.0 to 200.0°C	0 to 400°F
	65	Pt100	0.0 to 300.0°C	0 to 500°F
	66	JPt100	0.0 to 300.0°C	0 to 500°F
	67	Pt100	0.0 to 500.0°C	0 to 900°F
	68	JPt100	0.0 to 500.0°C	0 to 900°F

Input type	C01 No.	Sensor type	Range
Linear	81	0 to 10 mV	Scaling in the range of -1999 to +9999
input	82	10 to +10 mV	Decimal point position a changeable
	83	0 to 100 mV	
	84	0 to 1 V	
	86	1 to 5 V	
	87	0 to 5 V	
	88	0 to 10 V	
	89	0 to 20 mA	
	90	4 to 20 mA	

Model selection guide

mode		otion	guiu					I II III IV V VI V	VIII Example: C25TR0UA1000		
Basic model No.	II Mount- ing	Control output	IV PV input	V Power supply	VI Option 1	VII Option 2	VIII Additional processing	Specifications			
C25								Mask size 48 mm x 96 mm			
C26								Mask size 96 mm x 96 mm			
	Т							Panel mounting type			
								Control output 1	Control output 2		
		R0						Relay contact output	_		
		V0						Voltage pulse output (for SSR drive)	_		
		VC						Voltage pulse output (for SSR drive)	Current output		
		VV						Voltage pulse output (for SSR drive)	Voltage pulse output (for SSR drive)		
		C0						Current output	_		
		CC						Current output	Current output		
			U					Universal			
				Α				AC model (100 to 240 Vac) 50/60 Hz			
				D				DC model (24 Vac/dc) (available soon)			
					1			Event relay output:3 points			
					2			Event relay output:3 points, auxiliary o	utput (current output)		
				*1	4			Event relay output: 2 points (independe	ent contact),		
				*1	5			Event relay output: 2 points (independen	t contact), auxiliary output (current output)		
						0		-	_		
					*2	1		Current transformer inputs: 2 points, d	igital inputs: 4 points		
					*2	2		Current transformer inputs: 2 points, digital inputs: 4 points, RS-485 Communication			
							0_*	None			
							D □*	* With test data			
							Y □*	✓ □* With traceability certification.			

^{*1} Not selectable with the DC power supply model.

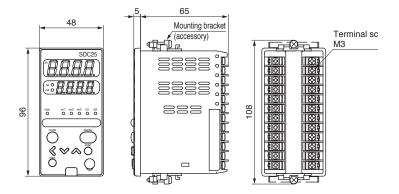
^{*2} Current transformer is sold separately.

^{*} Standards compliance

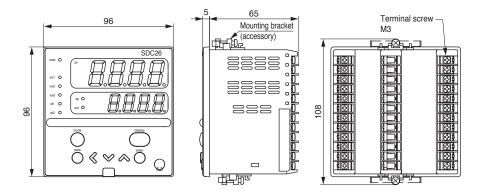
^{□*: 0:} CE marking
□*: A: CE marking, cUL

Dimensions

● C25 (Unit: mm)



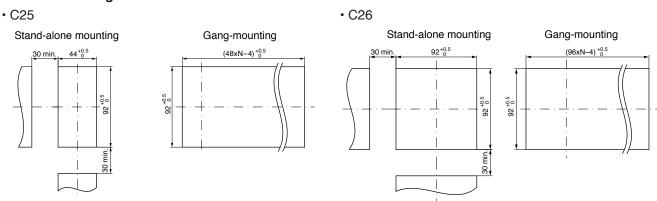
● C26



! Handling Precautions

• To fasten this controller onto the panel, tighten a mounting bracket screws, and turn one more half turn when there is no play between the bracket and panel. Excessively tightening the screws may deform the controller case.

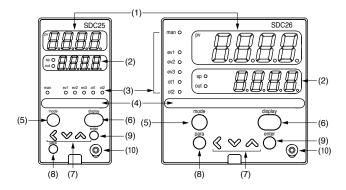
Panel cutout diagram



! Handling Precautions

- When three or more units are gang-mounted horizontally, the maximum allowable ambient temperature is 40°C.
- For water-proof installation, install the attached gasket and then mount the device as a stand-alone device.

Part names and functions



(1) Upper display: Displays PV values (present tempera-

ture, etc.) or setup items.

(2) Lower display: Displays SP values (set te amperature, etc.) and other parameter values. When

the lower display shows the SP value, the "sp" lamp lights up. When the display shows the manipulated variable

(MV), the "out" lamp lights up.

(3) Mode indicator

man: Lights when MANUAL (manual mode). ev1 to ev3: Lights when event relays are ON.

ot1, ot2: Lights when the control output is ON.

(4) Multi-status indicator:

In the combination of the lighting condition and the lighting status as a group, the priority 3 groups can be set.

(5) [mode] key: The operation which has been set beforehand can be done by pushing the key for

1s or more.

(6) [display] key: Used to change the display contents in the operation display mode. Display is returned from bank setup display to opera-

tion display.

 $(7) < , \lor, \land$ key: Used for incrementing numeric values and performing arithmetic shift operations.

(8) [para] key: Switches the display.

(9) [enter] keys: Used to set the setup values at the start of

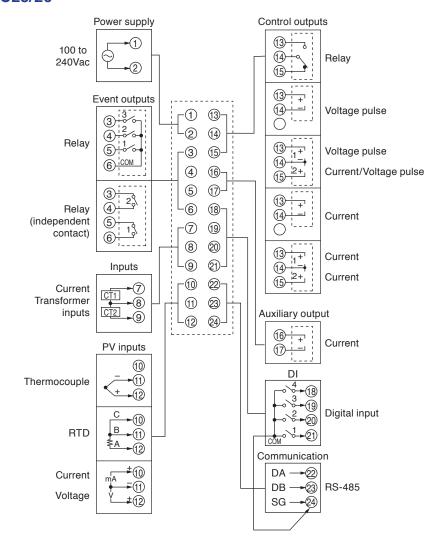
change and during the change.

(10) Loader connector:

Connects to a personal computer by using a dedicated cable supplied with the Smart

Loader Package.

Connection of C25/26



■ Precautions on the use of self-tuning function

The final control devices must be powered up simultaneously with or prior to the instrument when the self-tuning function is to be used.

■ Precautions on wiring

1. Isolation within instrument

Solid line portions "———" are isolated.

Dotted line portions "-----" are not isolated.

Power supply		Control output 1
PV input		Control output 2
Current Transformer input 1		Auxiliary output
Current Transformer input 2		
Loader communication	Internal	
Digital input 1	Circuit	Event output 1 *1
Digital input 2		Event output 2 *1
Digital input 3		Event output 3
Digital input 4		
RS-485 Communication		

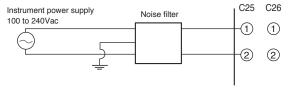
Availability of input and output is based on a model number.

*1 In case of independent contact, the part between the event output 1 and the event output 2 is isolated.

2. Preventive measures against noise of instrument power supply

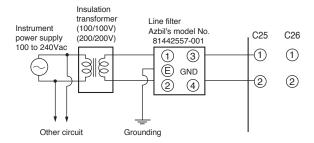
(1) Reduction of noise

Even though the noise is small, the noise filter is used to eliminate the effect of the noise as much as possible.



(2) When noise is excessive

If a large amount of noise exists, appropriate isolation transformer and line filter are used to eliminate the effect of the noise.



3. Installation environment noise sources and preventive measures

Generally, the following may be the noise sources in the installation environment:

Relay and contact, electromagnetic coil, solenoid valve, power supply line (particularly, 100 Vac or more), motor commutator, phase angle control SCR, radio communication device, welding machine, high-voltage ignitor, etc.

Preventive measures against fast rise noise

Use of CR filter is effective to prevent fast rise noise. Recommended filter:

Azbil's model No. 81446365-001

4. Wiring precautions

- After taking the noise preventive measures, do not bundle the primary and secondary power cables together or put both power cables in the same conduit or duct
- (2) Keep the input/output and communication lines 50 cm or more away from the power lines and power supply lines having a voltage of 100Vac or more.

 Additionally, do not put these lines together in the
 - Additionally, do not put these lines together in the same conduit or duct.

5. Inspection after wiring

After the wiring work has been completed, always inspect and check the wiring status. Great care should be taken since incorrect wiring may cause the instrument to malfunction or severe personal injury.

Please, read 'Terms and Conditions' from following URL before the order and use.

http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.



Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan URL: http://www.azbil.com/