Specifications

PV Input	Туре	Input group selectable by model No.(thermocouple, RTD, linear)			
·	Range	Refer to the PV input type and range table.			
	Sampling cycle	500 ms			
	Indication accuracy	±0.5 %FS±1 digit			
Control	Control mode	ON/OFF, time proportional PID, current proportional PID			
Output	Control action	Selectable by model No. • Relay output: 1c (SPDT) 250 Vac 3 A • Voltage pulse output: 19 Vdc±15 % Internal resistance 82 G Allowable current 24 mAdc max. • Current output: 0 to 20 mAdc, 4 to 20 mAdc (selectable by setting)			
Event	No. of outputs	3 points			
Output	Control action	Relay output: 1a (SPST)			
	Туре	PV, DEV, loop diagnosis, timer, heatercircuit break and others (32 types in total.)			
Digital	No. of inputs	2 points			
Input	Function	Auto/Manual changeover, Run/Ready changeover, set poir changeover, latch cancellation plus others (18 types in tota			
CT Input	Applicable current transformer	2 CT inputs max. Separate purchase: CT models QN206A (Ф5.8), QN212A (Ф12)			
Communication	Communication system	RS-485 (3-wire system)			
	No. of connectable units	Max. 31 units			
	Communication speed	Max. 38,400 bps			
Loader Port	Connection	Dedicated cable			
	Connection length	Max. 2 m			
General	Ambient temperature	0 to 50 °C			
	Power supply voltage	AC power supply model: 100 to 240 Vac DC power supply model: 24 Vac, 24 to 48 Vdc			
	Power consumption	AC power supply model: 12 VA max. DC power supply model: 7 VA max.(24 Vac) 5 W max.(24 to 48 Vdc			
	Standards compliance	CE marking (EN61010-1, EN61326) cUL (UL61010-1) Note: Depends on the model.			
	Structure	IP66 (NEMA 4) (front panel)			
	Mass	Panel mounted type: 150 g (including dedicated mounting bracket) DIN rail mounted type: 200 g (including socket)			

Model selection

Ι	Π	Ш	IV	V	VI	VII				
Basic Model No.	Mounting	Control output	PV input	Power supply	Option (1)	Option (2)	Description			
C15							Single Loop Controller			
	Т						Panel mounting			
*4	S						Socket mounting			
			\geq		\geq		Output 1	Output 2		
	*2	RO					Relay, (1a contact only for C15S)	-		
		VO					Voltage pulse	-		
	*1	VC					Voltage pulse	Current		
	*1	VV					Voltage pulse	Voltage pulse		
		CO					Current	-		
	*1	CC					Current	Current		
			Т				Thermocouple			
			R				RTD			
			L				DC voltage/current			
A					100 to 240 Vac					
D					24 to 48 Vdc/24 Vac					
			00		-					
01			01		Event relay 3 points					
*1 *3 02				02		Event relay 3 points, DI 2 inputs, CT 2 input				
*1 *3 03				03		Event relay 3 points, DI 2 inputs, CT 2 inputs, RS-48				
				*5 *6	04		Event relay 2 points			
*1 *3 *5 *6 05				05		Event relay 2 points, DI 2 inputs, CT 2 input				
*1 *3 *5 *6 06				06		Event relay 2 points, DI 2 inputs, CT 2 inputs, RS-48				
						O_*	None			
to Oran met her and rate of families merceded					D_*	w/ Inspection certification				
1 Can not be selected for the model C15S					Y_*	w/ traceability certification				
*2 Only 1a contact applicable for the model C15S *3 Current transformer sold separately *4 Socket sold separately *5 Can not be selected for the DC model				* Standa _=0: CE _=A: CE	ards compliance marking marking, cUL					
*6 In	*6 Independent relay contact									

Note: For models with Korean S Mark certification, contact the azbil Group.

Dimensions



Input Types and Ranges

nsor	Sensor type	Range (°C)	Sensor	Sensor type	Range (°C)		
ocouple		-200 to +1200	RTD	Pt100	-200 to +500		
		0 to 1200		JPt100	-200 to +500		
	K	0.0 to 800.0		Pt100	-200 to +200		
	ĸ	0.0 to 600.0		JPt100	-200 to +200		
		0.0 to 400.0		Pt100	-100 to +300		
		-200.0 to +400.0		JPt100	-100 to +300		
		0.0 to 800.0		Pt100	-50.0 to +200.0		
	J	0.0 to 600.0		JPt100	-50.0 to +200.0		
		-200.0 to +400.0		Pt100	-50.0 to +100.0		
	E	0.0 to 600.0		JPt100	-50.0 to +100.0		
	Т	-200.0 to +400.0		Pt100	0.0 to 200.0		
	R	0 to 1600		JPt100	0.0 to 200.0		
	S	0 to 1600		Pt100	0 to 500		
	В	0 to 1800		JPt100	0 to 500		
	Ν	0 to 1300	Linear	0 to 1 V			
	PL I	0 to 1300		1 to 5 V	Cooling is the		
WRe5	WPo5 26	0 to 1400		0 to 5 V	scaling in the		
	Wheb-20	0 to 2300		0 to 10 V	-1999 to +9999		
	PR40-20	0 to 1900		0 to 20 mA			
	DIN U	-200.0 to +400.0		4 to 20 mA			
	DINI	-100.0 to +800.0					

Note 1. The accuracy of the B thermocouple is ±5 %FS for a range of 260 °C or less, and ±1 %FS for 260 °C to 800 °C. 2. For ranges containing a decimal point, tenths are displayed on the line underneath.

Standards for input sensors

(16)

Thermocouple K, J, E, T, R, S, B, N: JIS C 1602-1995 PL II: material from Engelhard Industries (ITS90) WRe5-26: ASTM E988-96 (Reapproved 2002) DIN U, DIN L: DIN 43710-1985 Resistance temperature detector Pt100: JIS C 1604-1997 JPt100: JIS C 1604-1989

Software (sold separately)

Model No.	Name & Specification
SLP-C35J50	Smart loader package (loader cable included)

Optional Devices (sold separately)

Model No.	Name & Specification				
81446898-001	Terminal cover				
81446391-001	DIN rail terminal socket (for model C15S)				
QN206A	Current transformer (5.8mm dia.)				
QN212A	Current transformer (12mm dia.)				
81446442-001	Hard cover				
81446443-001	Soft cover				
81446403-001	Mounting bracket (included with model C15T, useable for model C15S)				

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https://www.azbil.com/products/factory/order.html

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Proven high reliability with 1,000,000+ units used worldwide

3 types of auto-tuning for improved control of a wide variety of equipment

Single Loop Controller Model C15

User-friendly & easy-to-use general-purpose controller

Simple setup for heater control. PC loader provides easy monitoring of control situation.



Useful in a variety of situations: when setting parameters, making trial run adjustments, checking operation, replacing parts, etc.





Monitor screen

briaht disp

arbil

SDC15

5

SP & PV display is clear and bright. LEDs indicate RUN/READY state, event/alarm output, and control output state, so you understand the situation at a glance.



06 Compact size

Reliability engineered into a mere 60 mm



A wide variety of events to choose from, and as many as 3 contact outputs



3 types of loop diagnosis - PV high / low / high & low limits — SP high / low / high & low limits — PV deviation high / low / high & low limits - Heater burnout / short-circuit / over-current alarm (2-point detection for 3-phase power) — and more

Loop diagnosis events

The loop diagnosis event settings allow consideration of the amount of measured PV change relative to the amount of MV (control). Three detection types are provided, including heater disconnection, solid-state relay (SSR) short-circuit, and detached or not inserted temperature sensor



Event configuration



Network Instrumentation Module Smart Device Gateway* Model NX-SVG

011 10

61119880

The model NX-SVG is a multi-vendor IoT gateway that links data between devices connected by Ethernet and RS-485 without the need to create communication programs. Using it in combination with model C15 reduces system development time significantly.



0	1 011 1000				10, 1, 01			
00	0		10					
0	0 0		10	1	01	1 1		
		10 1 011 10 1 011	1000					
			1000					

03 Many event types & up to 3 contact outputs



