

AKO

**D1 Series
Temperature
Controller**



AKO D1 Series Temperature Controller User Guide

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AKO

AKO D1 Series Temperature Controller



Product Information

Specifications

- **Model:** AKO-D141xx/D101xx
- **Temperature Indication:** Yes
- **Programming Access:** Yes
- **Time for Access:** 5 seconds for set point, 10 seconds for programming

Product Usage Instructions

Accessing Set Point and Programming

To access the set point:

- For AKO-D141xx/D101xx: Press and hold SET for 5 seconds.
- For AKO-D140xx: Press and hold SET for 5 seconds.

To access programming:

- **For AKO-D141xx/D101xx:** Press and hold SET for 10 seconds.
- **For AKO-D140xx:** Press and hold SET for 10 seconds.

Temperature Indication

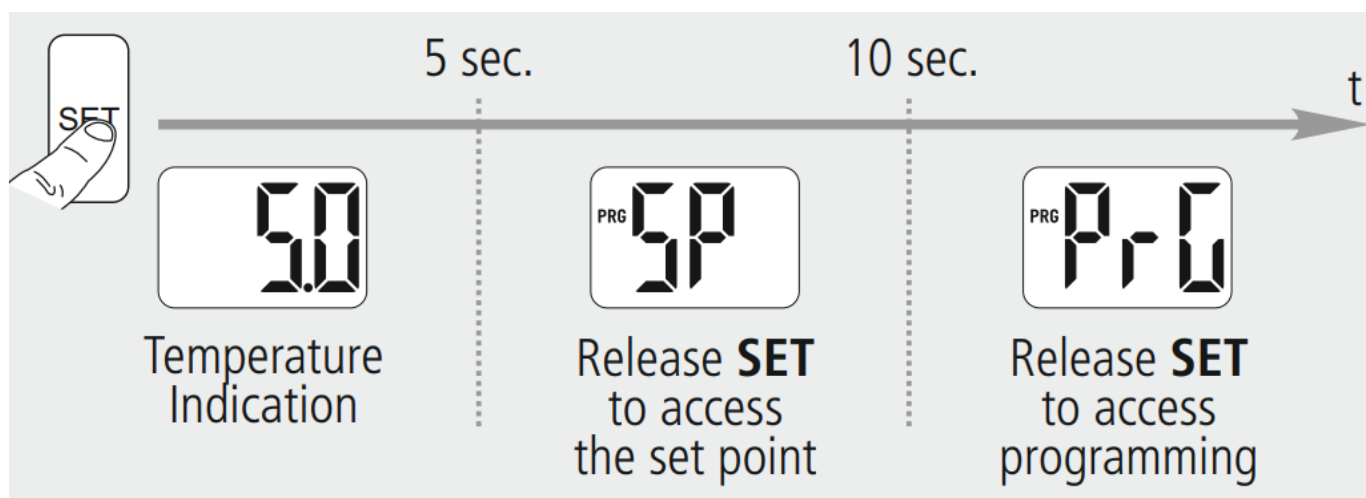
Release SET to access the set point or programming based on the specific model.

FAQ

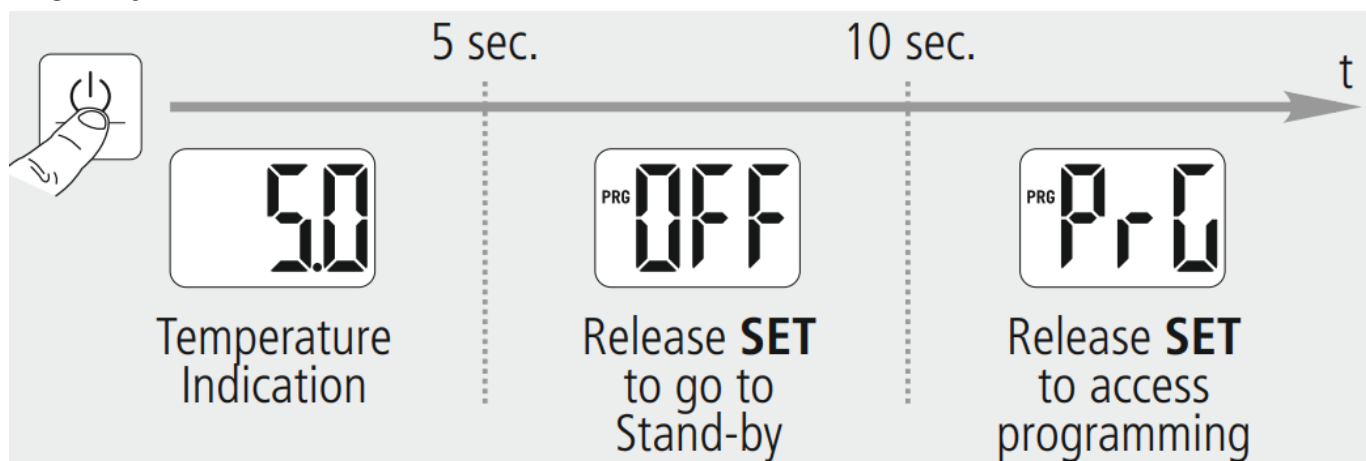
- **Q: How do I enter programming mode?**
 - **A:** To enter programming mode, for AKO-D141xx/D101xx, press and hold SET for 10 seconds. For AKO-D140xx, do the same for 10 seconds.
- **Q: How do I access the set point?**
 - **A:** To access the set point, for AKO-D141xx/D101xx, press and hold SET for 5 seconds. For AKO-D140xx, do the same for 5 seconds.
- **Q: What happens if no key is pressed for 20 seconds?**
 - **A:** The equipment will return to the previous level. If you are on level 3, the changes will not be saved.

Access to set point and programming

AKO-D141xx/D101xx



AKO-D140xx



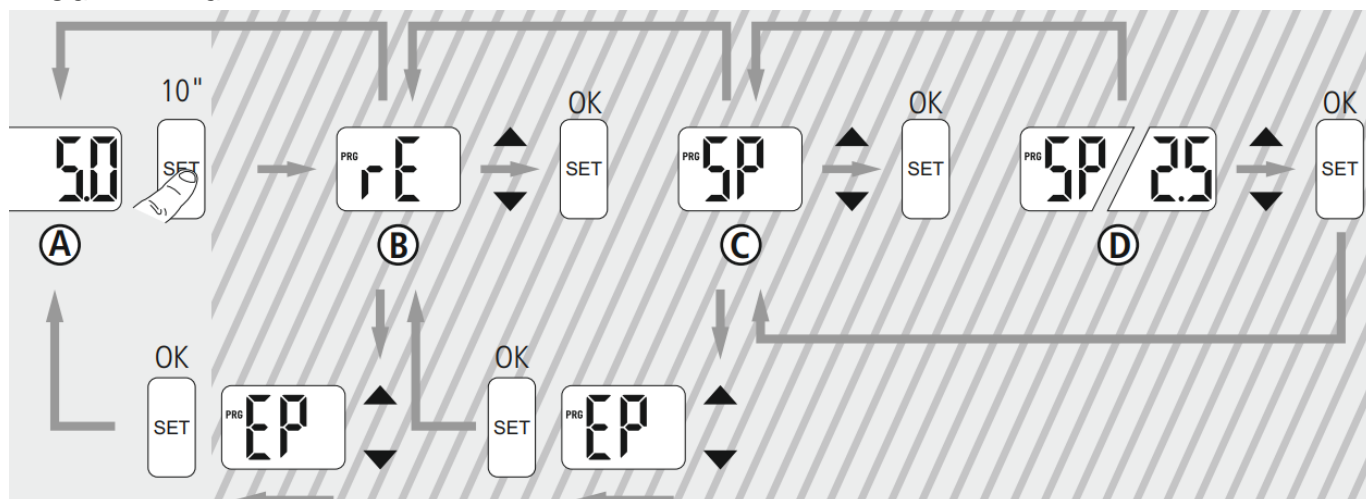
Programming Menu

Programming Menu parameters

After 20 seconds with no key being pressed, the equipment will return to the previous level. If you are on level 3, the changes will not be saved.

AKO-D141xx/D101xx

PROGRAMMING



AKO-D140xx

[illegible]

-  $< 5''$

- AKO-D14012, AKO-D14023**

AKO-D14120, AKO-D14123, AKO-D10123								
Level1		Menus and description						
rE	Leve	I 2 Control						
		Level 3	Description	Values	Min.	Def.	Max.	
							99.9	
		SP	Temperature Adjustment (Set Point) With NTC (°C/°F) (limits depending on probe type) With PTC	-50.0 (-58° F)			(210° F)	
						-	150 (302° F)	
		C0	Calibrating probe 1 (Offset) (°C/°F)	-20.0	0.0	20.0		
		C1	Probe 1 differential (Hysteresis) (°C/°F)	0.1	2.0	20.0		
						99.9	99.9	
		C2	Upper blocking of the set point With NTC (°C/°F) (cannot be set above this value) With PTC	C3		(210 °F)	(210° F)	
						-	150 (302° F)	
		C3	Lower blocking of the set point (cannot be set below this value) (°C/°F)	-50.0	-	50.0	C2	
				(-58° F)		(-58° F)		
		C4	Type of delay for protection of the compressor: 0 =OFF/O N (since the last disconnection)	0	0	1		
			1 =OFF-ON/ON-OFF (since the last shut-down /start-up)					
		C5	Protection delay time (value of the option selected in par ameter C4) (min.)	0	0	120		
		C6	Status of the COOL relay with probe fault 0 =OFF; 1 =ON;	0	2	2		
			2 =Average based on the last 24 hours before the probe f ault					
		EP	Exit to Level 1					
dEF	Leve	I 2 DEFROST Control (if P0=0 Direct, Cold)						
		Level 3	Description	Values	Min.	Def.	Max.	
		d0	Defrost frequency (Time between two starts) (h.)	0			96	
		d1	Maximum defrost duration (0 =defrost deactivated) (min.)	0	0		255	

d2	Type of message during defrosting: 0 =Current temperature; 1 =Temperature at start of defrost; 2 =Display dEF message	0	2	2			
d3	Maximum duration of the message (time added at the end of the defrost) (min.)	0	5	255			
EP	Exit to Level 1						

AKO-D14023-C

AKO-D14012, AKO-D14023

AKO-D14120, AKO-D14123, AKO-D10123

CnF	Leve	I 2 General status								
		Level 3	Description	Values	Min.	Def.	Max.			
	P0	Type of operation 0 =Direct, Cold; 1 =Inverted, Heat			0	*	1			
	P1	Delay of all functions on receiving electrical power (min.)			0	0	255			
	P2	Access code (password) functions			0	0	2			
		0 =Inactive; 1 =Block access to parameters; 2 =Keyboard lock								
	P5	Address (only systems with built-in communications)			1	1	255			
	P7	Temperature display mode 0 = Integer °C 1 =One decimal in °C			0	1	3			
		2 =Integer °F 3 =One decimal in °F								
	P9	Selection of probe type 0 =NTC; 1 =PTC			0	0	1			
EP	Exit to Level 1									
tid	Lev	el 2 Access and information control								
		Level 3	Description	Values	Min.	Def.	Max.			

L5	Access code (Password)	0	–	99			
PU	Program version (Information)		–				
Pr	Program revision (Information)		–				
EP	Exit to Level 1						
EP	Exit Programming						

MESSAGES			
L5	Access code (Password) request	D	
dEF	This indicates a defrost is underway. (Only if parameter d2=2)	D	–
E1	Probe 1 faulty (open circuit, crossover, NTC : temp. >110°C or <-55 °C PTC : temp. >150 °C or <58 °C) – (equivalent limits in °F)	D	S
InI	Setup wizard (See section “Start-up”)	D	

- **D**: Displays the message on the display
- **S**: Shows the message in the AKONet software (Only AKO-D14023-C)

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Documents / Resources



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D14120, D14123, D14012, D14023, D14023-C, D10123, D1 Series Temperature Controller, D1 Series, Temperature Controller, Controller

References

- [User Manual](#)

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