

DSPR320A Parameters

Firmware version 2.2.2 (April 2021)

Summary of Changes

1. Fixed the bug that when RELY = Beep, the relay doesn't pull in at the end of the program.
2. The relay function "Beep" is renamed as "EVNT" (short for "event").
3. The relay function "ALBE" is renamed as "ALEV" (short for "alarm & event").
4. Add a parameter "BUZR" (short for "buzzer") to the SYST menu. This parameter all the user to turn off the build-in buzzer.
5. When RELY is set to ALAM, EVNT, or ALEV, the buzzer is always associated with temperature alarm settings (AH, AL, DH, and DL). To disable the buzzer for temperature alarm, please set the AH, AL, DH, or DL to "OFF".
6. But if RELY is set to RAMP, HEAT, COOL, STEP, or EXTN, the build-in buzzer is not enabled for temperature alarm no matter what are the settings of AH, AL, DH, or DL.
7. In either situation described in #5 or #6, the built-in buzzer is enabled for event alarms unless the parameter BUZR = OFF.

Updates in Parameters

Only the menus that have newly added or renamed parameters are listed here. New or renamed parameters are highlighted in yellow.

RELY -- relay configuration

Relay	Name	Description	Range	Default	Note
Relay 1	rL1	Relay working mode.	Off, ALAM, EVNT, ALEV, RAMP, HEAT, COOL, STEP, EXTN	Off	See the next table
	rrG1	Relay range. Determines whether this relay works in MASH mode only, in BOIL mode only, or works in both MASH and BOIL modes.	MASH, BOIL, ALL	All	
	LGC1	Relay logic	rL-C, rL-O	rL-C	
	RLP1	Relay programming. This is a calculated numeric value to determine at which steps this relay should work.	NONE, 0 ~ 511, ALON	ALON	
	LAT1	Relay latching mode	N, PUL	N	
	SIL1	Deviation low and absolute low alarm are silenced during the initial heat-up.	ON, OFF	OFF	

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	AH1	Absolute high alarm	OFF, 0 ~ 932 deg	OFF	
	AL1	Absolute low alarm	OFF, 0 ~ 932 deg	OFF	
	DH1	Deviation high alarm	OFF, 1 ~ 100 deg	OFF	
	DL1	Deviation low alarm	OFF, 1 ~ 100 deg	OFF	
	HY1	Alarm 1 hysteresis band	1 ~ 100 deg	1	
	AP1	Pulsing duration	1 ~ 100 seconds	5	
Relay 2 (modified the same way as Relay 1)	

RL1 and RL2 - relay working mode

Old parameter names	New parameter name	Symbol	Description
OFF	OFF	<i>OFF</i>	No relay action
ALAM	ALAM	<i>ALAM</i>	Relay works as temperature alarms, determined by AH1, AL1, DH1, DL1
BEEP	EVNT	<i>EVNT</i>	Relay is synchronized with program events (such as run, pause, step-timer-starts, step-end, program-end, etc.)
ALBE	ALEV	<i>ALEV</i>	Sync with temperature alarms and program events.
RAMP	RAMP	<i>RAMP</i>	Relay synchronizes with the ramp-up or ramp-down phases between steps.
HEAT	HEAT	<i>HEAT</i>	Relay synchronizes with the ramp-up phases only.
COOL	COOL	<i>COOL</i>	Relay synchronizes with the ramp-down phases only.
STEP	STEP	<i>STEP</i>	Relay synchronizes with the steps only, i.e., timer-ticking phases.
EXTN	EXTN	<i>EXTN</i>	Relay synchronizes with the extended steps, including the ramp and the step.

SYST-- system configuration

Name	Symbo	Description	Range	Default	Note
Pb	<i>Pb</i>	Probe offset	-20.0 ~ +20.0	0.0	
buzr	<i>buzr</i>	Enable or disable the build-in buzzer.	ON, OFF	ON	
C-F	<i>C-F</i>	Temperature unit	C, F	F	
PuS	<i>PuS</i>	Power-up setting. Pus = INST, controller starts executing its program once it is powered up. Pus = DELY, program won't start running until the operator press the A key.	INST, DELY	DELY	
ART	<i>ART</i>	Auto-return time, unit in seconds	10 ~ 60 sec	30	
Knob	<i>Knob</i>	Whether to allow the operator to	y/n	y	

		change timer and set temperature while program is running.			
MUAL	<i>n uRL</i>	Whether to use RUN key to cancel relay when it is activated by temperature alarm.	n/y	n	
VER	<i>uEr</i>	Display firmware version		2.2.2	
INIT	<i>inIt</i>	Initialization, factory reset	n/y	n	

(End)