

CAL DIGITAL THERMOSTAT

FRONT
77 x 35



ET 2011
Digital thermostat

General:
The series of CAL digital thermostats is a complete family of small-format devices for simple heating and cooling applications that are also equipped with displays and timers for corresponding monitoring and regulation. The devices are easy to configure and use, are equipped with a large, easily legible display and have a compact design that enables quick installation.

Application:
Heating and cooling applications
• Thermocouple or PT100 inputs
• 2 outputs for control and for alarms
• Format 77 x 35 mm (B x H) (cutout 71 x 29 mm)

Specifications:
Input: Thermocouples (J, K, T, S, R) or PT100
Temperature range: PT100: -99.9 ... +300.0 °C (-99.9 ... +543.0°F)
PT100: -200 ... +600 °C (-328 ... +1112 °F)
JT/C: 0 ... 600 °C (32 ... 1112 °F)
KT/C: 0 ... 1300 °C (32 ... 2372 °F)
TT/C: 0 ... 400 °C (32 ... 752 °F)
S & RT/C: 0 ... 1700 °C (32 ... 3092 °F)
Regulation type: On/Off, PID
Regulating strategy: Heating or cooling regulation
Number of relay outputs (8A): 1
Number of SSR outputs: 1

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Greisinger	
1.	Sensor type
	RT- PT100/RTD
	T- Thermocouple
2.	Supply voltage
	230 230 V AC 50/60Hz
	110 110VAC
	024 24 V AC
	SM 9-30 V DC / 7-24 V AC
3.	Power relay option
	-R 8A relay
	-P 20A relay

NTC-SENSORS

SUITABLE FOR EDT 24XX

E-NTC-APS

Art. no. 608933
NTC-Sensor
Air sensor, maximum 150 °C, stainless steel casing, 1.5 m silicone cable

E-NTC-LPS

Art. no. 608935
NTC-Sensor
Liquid sensor, maximum 150 °C, stainless steel casing, 1.5 m silicone cable

DEFROSTING THERMOSTAT

FRONT
77 x 35



EDT 2411
Defrosting thermostat

EDT 2412
Defrosting thermostat

EDT 2423
Defrosting thermostat

General:
The series of CAL digital thermostats is a complete family of small-format devices. The devices are easy to configure and use, are equipped with a large, easily legible display and have a compact design that enables quick installation. The EDT defrosting models are provided with a variety of functions for the optimal regulation and performance of cooling systems, including compressor protection, real-time clock and communication.

Application:
• Compressor, defrosting and fan regulation
• Up to two NTC inputs for main and defrosting temperature measurement
• Support of manual, time-controlled and evaporator-controlled defrosting modes
• Format 35 x 77 mm (cutout 29 x 71 mm)
• Real-time clock (optional)
• RS485 communication (optional)

Specifications:	EDT2411	EDT2412	EDT2423
Type and number of inputs:	NTC x 1	NTC x 1	NTC x 2
Temperature range:	-60 ... +150 °C (-76 ... +302 °F)	-60 ... +150 °C (-76 ... +302 °F)	-60 ... +150 °C (-76 ... +302 °F)
Defrosting function:	Manual (button or DI)/automatic timer	Manual (button or DI)/automatic timer	Manual (button or DI)/timer/ evaporator temperature
Number of relay outputs (8A):	1	2	3
High-current relay (optional) - compressor output (20A):	•	•	•
Defrosting output:		•	•
Fan output:			•
Defrosting sensor input:			•
Real-time clock (optional):	•	•	•
RS485 Modbus communication (optional):	•	•	•

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ordering code:	
1. Number of inputs and outputs	
11	1x NTC input, 1 x relay output
12	1x NTC input, 2 x relay output
23	2x NTC input, 3x relay output (2nd o/p for evap' temp')
2. Supply voltage	
230	230 V AC
110	110 V AC
12	12 V AC/DC
24	24 V AC/DC
3. Compressor relay output	
R	8A
P	20A output (not with EDT2423)
4. Options	
none	(blank)
RTC	real-time clock (only with 8A relay)
RS	Modbus RTU