

FOR FUNCTIONS, PARAMETERS AND PROGRAMMING, SEE THE MANUAL ENCLOSED  
**QUICK TOUR - PARAMETERS AND TYPICAL SETTINGS EXAMPLE, MODE 2**

#	PARAMETER	EXAMPLE	DEFAULT
ST1	Set-point 1	5,0	20,0
DF1	Differential for set-point 1	2,0	2,0
ST2	Set-point 2	vacant	vacant
DF2	Differential for set-point 2	vacant	vacant
DBN	Neutral zone (dead band)	0,5	2,0

**PROGRAMMING THE MODE 2 (#0 to #12 available)**

- Press and hold "UP" and "DOWN" for > 3 seconds.
- Use "UP" (6x) to scroll through the menu till SYS shown (system menu).
- Press "OK".
- Using "UP" (3x) scroll till PRO shown (operating modes).
- Press "OK" and hold down for > 3 seconds (the digits start to flash).
- Using "UP" scroll till 2 shown.
- Press "OK".
- Press "DOWN" twice to leave this setting and programming mode.

The above is a part of advanced programming menu, where the parameters you may prefer to change are grouped in following menu order:  
 REG Regulation, OUT Output, ING Outside input, ALR Alarm, DSP Display, SNS Sensor, SYS System, ADD Special parameter

**SIMPLE PROGRAMMING OF THE REGULATION PARAMETERS**  
 For mode 2, you can program Set-point 1 (ST1), Differential for Set-point 1 (DF1) and Neutral Zone (DBN)

- Press "OK".
- Use "UP" to scroll to parameter you wish to change (ST1, DF1, DBN).
- Press "OK" and hold down for > 3 seconds (the digits start to flash)
- Using "UP" or "DOWN" scroll to the required value.
- Press "OK".
- Press "DOWN" to leave the simple programming mode.

**NOTES:**

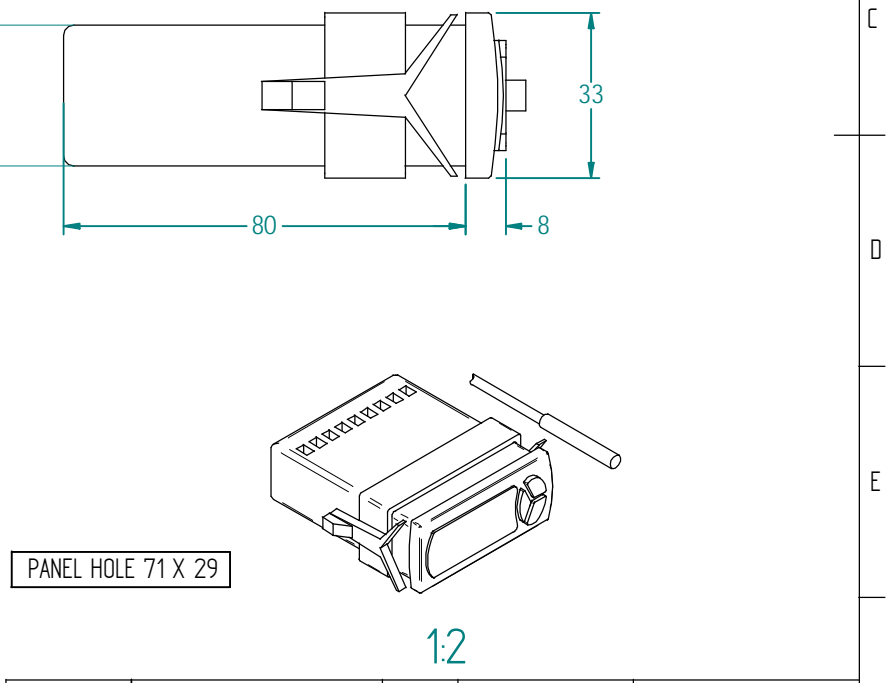
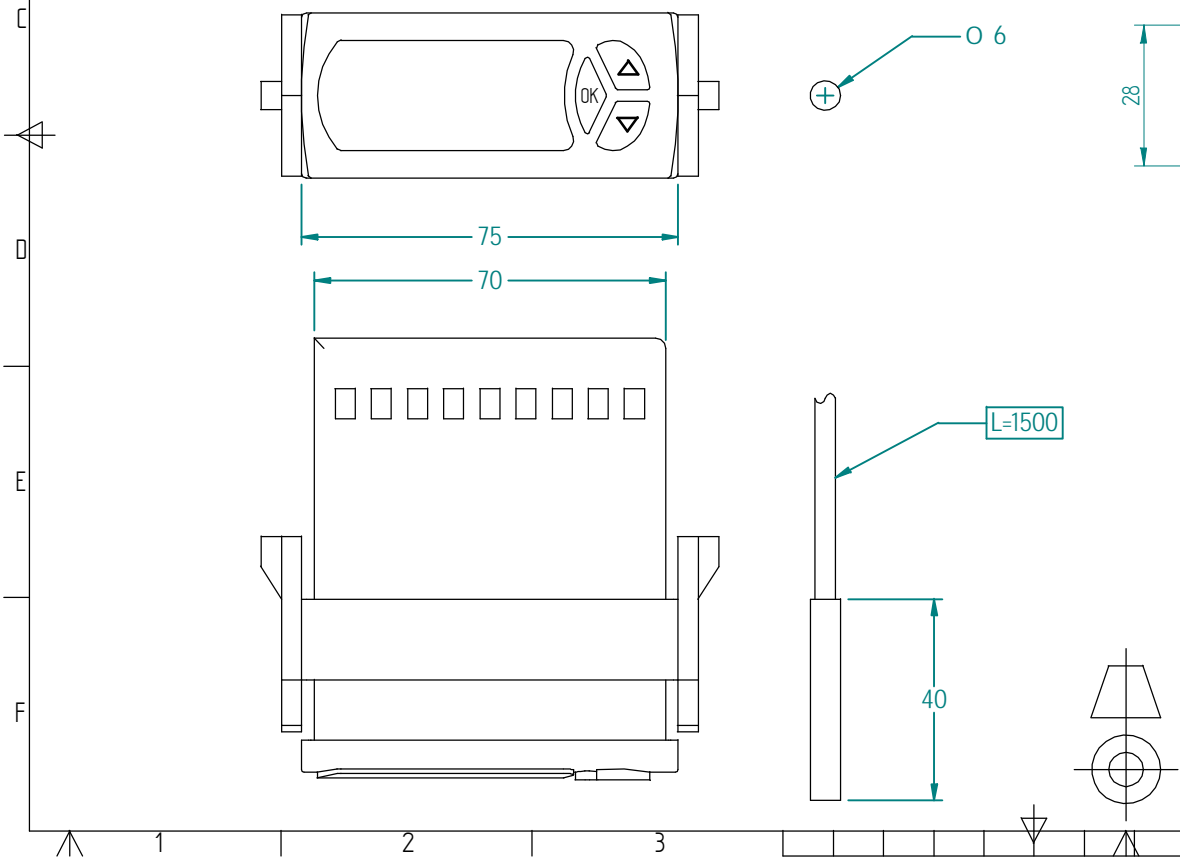
- WIRE THE CONTROLLER AS PER WIRING DIAGRAM (PAGE 2).
- DO NOT CONNECT THE THERMOELECTRIC SYSTEM OR FANS YET !!**
- BEFORE USE YOU MUST PROGRAM THE CONTROLLER AND SET THE PARAMETERS ACCORDING TO YOUR REQUIREMENTS.
- OTHER MODES THAN MODE 2 ARE NOT USED FOR REVERSIBLE THERMOELECTRIC SYSTEMS.
- TO RESET THE DEFAULT VALUES, SWITCH ON THE CONTROLLER WHILE HOLDING DOWN THE "OK" KEY.
- DUE TO CAPACITORS, THE FANS OF A THERMOELECTRIC SYSTEM MUST BE FEEDED SEPARATELY.  
 IF YOU HAVE A THERMOELECTRIC SYSTEM WITH SUPERCOOL CONNECTIONS PCB AS SHOWN IN THE WIRING DIAGRAM (PAGE 2) DO NOT FORGET TO REMOVE THE JUMPERS.

Specification: (Ta=32°C)	Code:	Description:
Heat transfer, cold side	x	x
Heat transfer, warm side	x	x
Cascade:	-	x
Cooling power: (W)	x	x
Voltage, nominal: (VDC)	xx	12 to 24V VDC ±10%
Current, nominal:		8 A max
TE-Module(s):		x
Fan(s), cold side:	x	x
Fan(s), warm side:	x	x
Temperature controller, sensor:	M	Relay (2x) = Reversible, NTC
Temperature control settings:	Q	-50°C to 90°C
Trimable:		Program
Accuracy & Hysteresis:		±0,5°C & Program.
Temperature control position:	7	Remote Display °C
Options: Voltage protection:	0	None
Rapid Cooling / Economy:		None
Weight:		0,2 kg net.
Overheating thermostat:		-
Max. operating temperature:		45°C
Enclosed:		Manual
Packing:		Individual cardboard box.

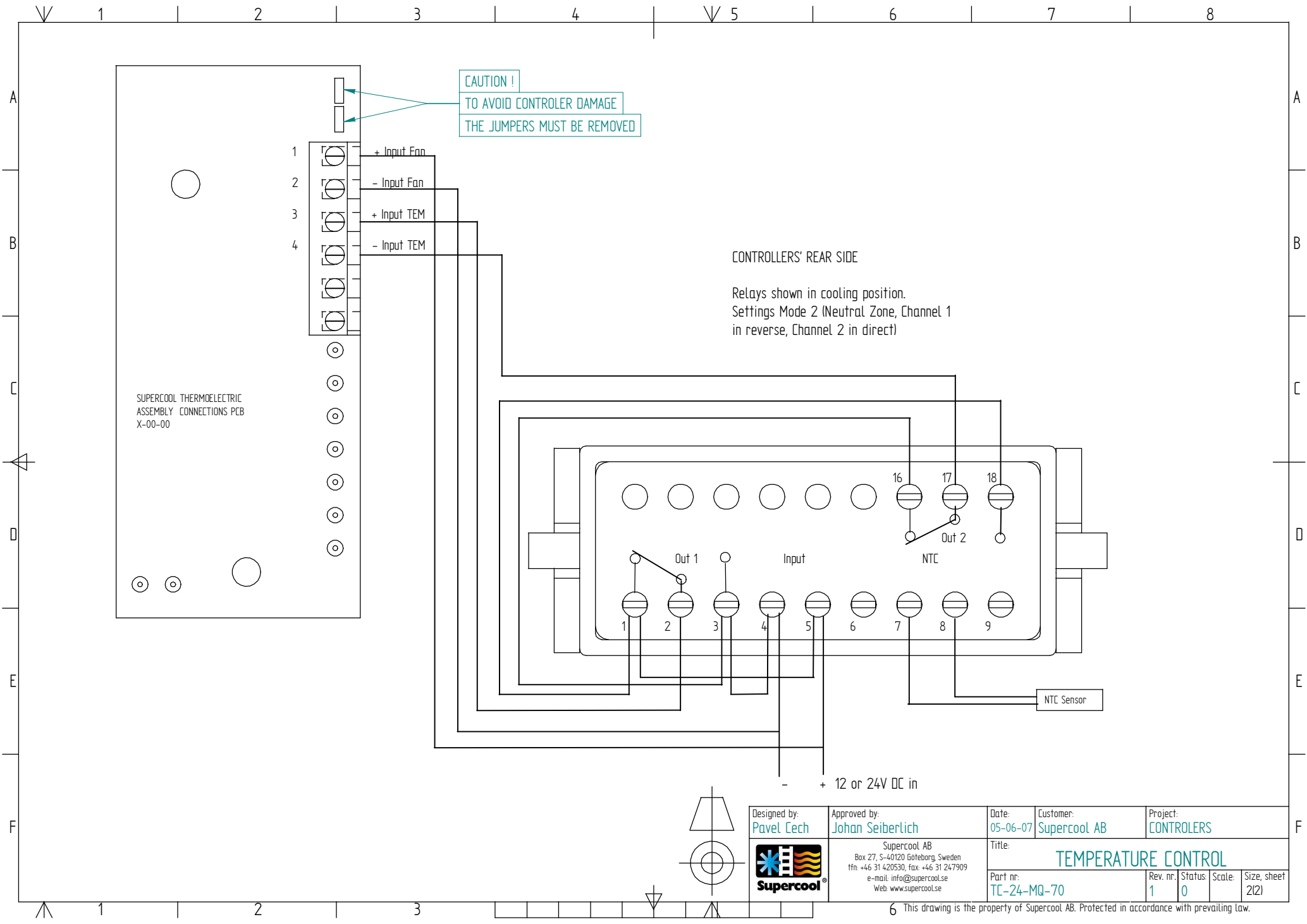
**DISPLAY**  
 3 digit LED with decimal point  
 Relay intervention signalling lamps

**INFRARED RECIEVER**

**KEYS**  
 "OK" = Confirm and parameter programming  
 "UP" = Increase or go to next parameter  
 "DOWN" = Decrease the parameter or leave the menu




Designed by: <b>Pavel Tech</b>	Approved by: <b>Johan Seiberlich</b>	Date: 05-06-07	Customer: Supercool AB	Project: CONTROLLERS
		Title: <b>TEMPERATURE CONTROL</b>		
		Part nr: TC-24-MQ-70	Rev. nr: 1	Status: 0



CAUTION!  
 TO AVOID CONTROLLER DAMAGE  
 THE JUMPERS MUST BE REMOVED

SUPERCOOL THERMOELECTRIC  
 ASSEMBLY CONNECTIONS PCB  
 X-00-00

CONTROLLERS' REAR SIDE  
 Relays shown in cooling position.  
 Settings Mode 2 (Neutral Zone, Channel 1  
 in reverse, Channel 2 in direct)

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 Supercool AB Box 27, S-40120 Göteborg, Sweden tfn: +46 31 420530, fax: +46 31 247909 e-mail: info@supercool.se Web: www.supercool.se		Title: <b>TEMPERATURE CONTROL</b>		
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Size, sheet 2(2)				