PROPICK
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CUSTOMER GUIDE

TY-18

Programmable kiln temperature controller

A clear reference for ramp / soak programming, display states and pre-firing checks.



BEFORE FIRST USE

Confirm the kiln's rated maximum temperature. Match every key function to the controls on your actual TY-18 panel; versions differ.

01 Controls & display

02 Enter a firing schedule

03 Modes & safety

04 Reference program

GET ORIENTED

The controller at a glance

PV is the measured temperature. SV shows the programmed setpoint or controller status.



Illustrative controller panel supplied with the product images.

CHECK YOUR PANEL

The pictured panel has **SET / R/S / DOWN / UP**. The source guide refers to **RUN/HOLD, STOP and A/M**. Verify the exact key mapping and firmware before use.

PV	Measured kiln temperature
SV	Setpoint or status
RUN / HOLD / STOP	Active / paused / stopped

KEY FUNCTIONS IN THE SUPPLIED REFERENCE

SET	Enter settings or advance to the next parameter. Hold about 2 seconds to move back; hold about 5 seconds to exit programming.
▲ / ▼	Increase or decrease the displayed value.
◄	Move the editing position to the next digit.
RUN / HOLD	Hold about 3 seconds to start from STOP. During a program, hold about 3 seconds to pause or resume when HOLD is enabled.
STOP / A/M	Hold STOP about 3 seconds to stop. A/M changes automatic/manual mode where that function exists.

SET actions are context-dependent in the source guide. Test navigation on your actual controller before a live firing.

RAMP / SOAK

Build a firing schedule

The controller alternates temperature setpoints (C01, C02 …) and segment times (T01, T02 …). Times are in minutes.

C01 → **T01** → **C02** → **T02** …

01

Open the first setpoint

From the normal display, press SET once. C01 should appear above its programmed temperature.

02

Set temperature and time

Use ▲ / ▼ to change C01; use the digit-shift key where fitted. Press SET to save and advance to T01, then enter the segment time.

03

Continue through the profile

Enter C02, T02, C03, T03 and later pairs in order. Check each temperature against kiln and load ratings.

04

End with a stop command

Set the time of the intended final segment to **-121** (program stop). Check the entire profile.

05

Exit and check

Hold SET for about 5 seconds to leave programming. Read back the complete profile before heating.

WHILE RUNNING

START	PAUSE / RESUME	STOP
Hold RUN/HOLD ~3 s	Hold RUN/HOLD ~3 s	Hold STOP ~3 s

OPERATE CAREFULLY

Modes, checks and safety

Use automatic mode for programmed firings. Advanced settings and manual output are for trained operators.

A / AUTOMATIC

Follows the programmed temperature curve. Intended for a scheduled kiln firing.

M / MANUAL

Adjusts output as a percentage instead of following the profile. Only for trained operators where supported.

The source says SET once displays A/M mode, but elsewhere says SET once opens C01. Check the context and key sequence on your unit.

ADVANCED PARAMETERS

ALSh / ALAL	Upper and lower temperature alarm parameters in the supplied reference.
OPH / OPL	Upper and lower output limits, if enabled on this configuration.

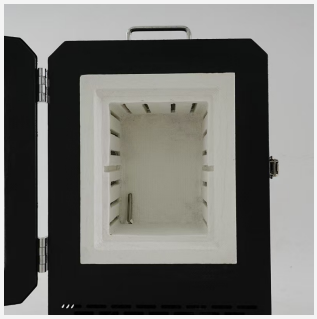
The reference describes holding SET about 3 seconds for alarm settings, then pressing SET to reach OPH. Labels may differ by controller version. Do not change these values without the exact manufacturer instructions.

IF SOMETHING LOOKS WRONG

No heat: check STOP/HOLD status, supply and entered values. **Abnormal reading:** stop firing and have the thermocouple and controller checked by a qualified technician.

SAFETY ESSENTIALS

Never exceed the lowest maximum rating of the kiln, elements, thermocouple, shelves or ware. Ventilate and supervise as required by the kiln maker. Allow safe cooling before opening; disconnect power before servicing. This guide does not replace kiln manufacturer instructions.



SUPPLIED EXAMPLE

Programming reference

The following values reproduce the supplied instruction sheet. They illustrate data entry; they are not a recommended firing schedule.

DO NOT RUN THIS EXAMPLE

Rows 09–11 call for **1240–1245°C**, above the **1200°C** maximum shown for PROPICK's Small Electric Kiln. Multiple -121 stops and later rows may be separate examples. Do not assume the controller continues past the first stop.

STEP	SETPOINT	TEMP.	TIME	COMMAND / NOTE
01	**C01**	40°C	30 min	
02	**C02**	200°C	80 min	
03	**C03**	400°C	60 min	
04	**C04**	600°C	40 min	
05	**C05**	800°C	40 min	
06	**C06**	1000°C	40 min	
07	**C07**	1100°C	40 min	
08	**C08**	1200°C	30 min	At stated max.
09	**C09**	**1240°C**	30 min	**Over 1200°C**
10	**C10**	**1245°C**	20 min	**Over 1200°C**
11	**C11**	**1245°C**	-121	**STOP / over max.**
12	**C12**	0°C	300 min	Later example?
13	**C13**	800°C	20 min	
14	**C14**	800°C	-121	STOP
15	**C15**	40°C	80 min	Later example?
16	**C16**	300°C	20 min	
17	**C17**	300°C	-121	STOP

Use this table only as a reading aid. Choose a firing profile approved for your kiln, load and controller variant. Verify all setpoints and stop commands before starting.