
U n i - C o d e r
T h e r m a l o s c i l l o
T - 9 3 8 (0 0 V e r s i o n)
S P E C I F I C A T I O N

Specifications are subject to change without notice.

PANTOS CO., LTD	Drawing number	Amendment
	9 3 8 1 - 0 0 - 0 0 0 1 B	

Product name T-938	Drawing name T-938 Thermal recorder SPECIFICATIONS
-----------------------	---

1. INTRODUCTION

The uni-corder T-938 is a thermal array type recorder.

As a standalone unit, it can record from extremely low speeds to extremely high speeds. Because the operational design is of great importance, read the operation manual.

2. SPECIFICATIONS

Basic specifications

Model	: T-938 (00 Verzion)
Power supply	: 90 ~ 132 V AC, 48 ~ 62 Hz
Power consumption	: 120 VA (Maximum is the increase of 20% of TYP.)
External dimension	: 475 (W) × 126 (H) × 310 (D) mm
Weight	: Approx. 8 kg
Operating environment	: 5 ~ 35 °C, 35 ~ 85 %RH
Storage environment	: 0 ~ 45 °C, no condensation
Insulation resistance	: Power supply-chassis (GND) 50 MΩ or more : Control input/output-chassis (GND) 20 MΩ or more (500 V DC megger)
Withstand voltage	: Power supply-chassis (GND) 1500 V AC : Control input/output-chassis (GND) 500 V AC (for 1 minute)

Input section

Number of slots	: 9
Applicable recorder	: T-938
Assembly	: No restriction for the device assembly

Operating section

Memory length setting	: 50, 100, 200, 300 div
Split recording	: 100 mm or 40 mm in the direction of phenomenon axis; or depending on the number of input units split.
Enlargement/Reduction	: 5 times enlargement in the direction of the time axis or reduction of 1/5, 1/10
Trigger logic	: Selectable AND or OR
Delay	: 10%, 50%, or 90% of set memory length
Time axis feed	: 100 μs to 1 h/div, 23 steps
[FEED] switch	: Feeds the chart paper.
[STATUS] switch	: Records the setting conditions.
[COPY] switch	: Copies the stored waveform.
[START] switch	: Starts the measurement.
[STOP] switch	: Stop the operation.
[KEY LOCK] witch	: Makes the key setting impossible.
Memory recording	: Sets memory recording when low speed recording in real time is possible.
Repeat recording	: Repeats the trigger stand-by status after recording the waveform in the memory mode.
Channel No. recording	: Records the Nos. of channels.

Drawing number	9381-00-0001B	Page	1/4	Amendment	
----------------	---------------	------	-----	-----------	--

Product name T-938	Drawing name T-938 Thermal recorder SPECIFICATIONS
-----------------------	---

Display section

- Process display : Before/stand-by/after trigger
Nothing is carried out when the lamp is unlit;
Operating when the lamp is blinks;
Operation is finished when the lamp is lit.
- Mode display : Displays the switching of memory or real-time recording by the time axis feed rate.
- Paper-out alarm : Warns the chart paper out.
- Over-heat indicator : Warns the print head is over heated.
Recording is stopped when this indicator is lit.
- Recording monitor : Monitor of recording level.
Operates during stopping or waveform recording.

Recording section

- Phenomenon axis resolution : 1 / 8 mm (Total of dots : 1 7 2 8)
- Time axis resolution : 1 / 1 0 mm
- Recording speed : Max. 5 0 mm / s
Changes by the waveform to be recorded.
Even if it inserts 2ch unit in all slots, record speed does not change.
- Feed rate : 5 0 mm / s
- Chart paper : 2 1 6 0 3 T
- Recording width : 2 1 6 mm
- Width of chart paper : 2 1 6 mm
- Length of chart paper : 5 0 m

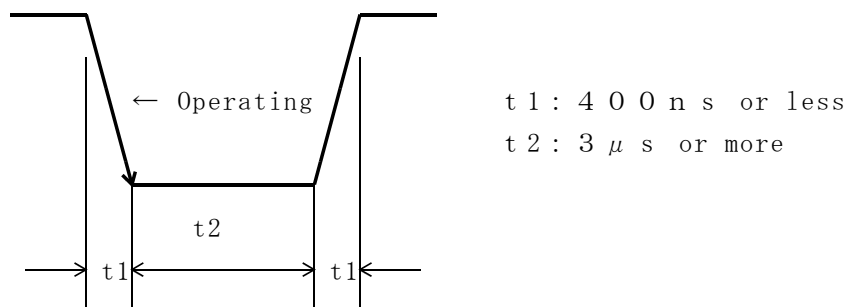
Print head section

- Model : K J T - 2 1 6 - 8 M G F 1 (KYOCERA)
- Pulse lifetime : 3 0 million pulse
- Abrasion resistance : 3 0 km

NOTE : Print head is expendables.

External input section

- Trigger input : TTL level, Contact signal
Negative logic ; operates at trailing.



Drawing number	9381-00-0001B	Page	2/4	Amendment	
----------------	---------------	------	-----	-----------	--

Product name T-938	Drawing name T-938 Thermal recorder SPECIFICATIONS
-----------------------	---

Trigger output : TTL level
Negative logic ; trails during the trigger operation.

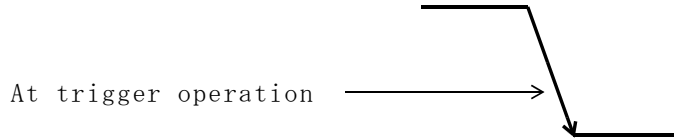


Chart paper feeding : TTL level, Contact signal
Effective in the START status, or the [START] switch is pressed on the upper panel.

TTL level H : Operating L : Stopped	Contact signal OFF : Operating ON : Stopped
---	---

Built-in clock section

Accuracy : ± 4 seconds a day (TYP.)
Recording digit : NN year NN month NN day NN hour NN minute
NN second

Buck-up section

Storing time : Approx. 1 month (at 23°C) (at fully charged)
Item : Each setting, built-in clock

Accessories

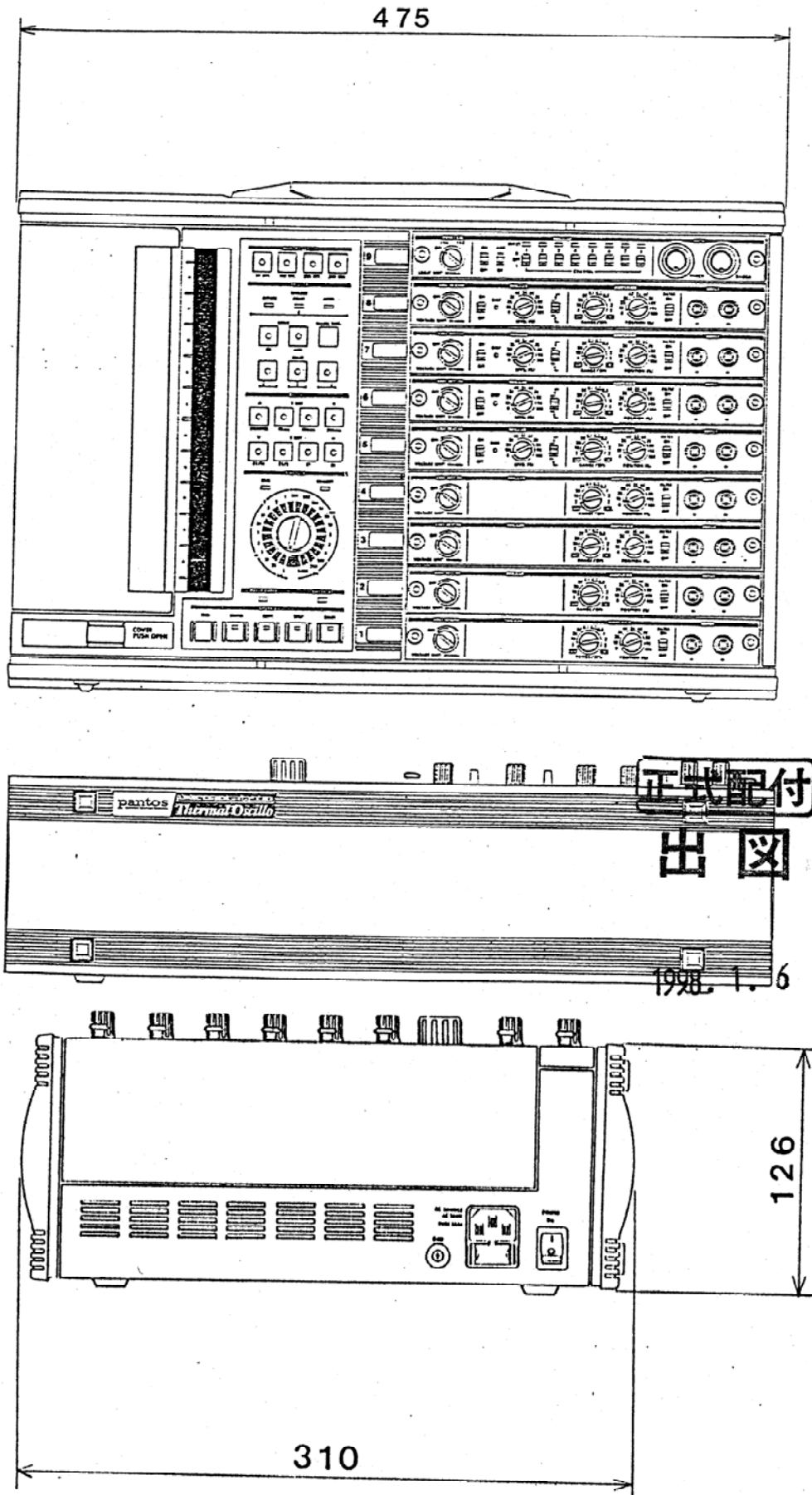
Chart paper : 1
2 A fuse : 1
3 A power cable : 1
Instruction manual : 1
Head cleaner : 1
Dust cover : 1
Ground adapter : 1

Drawing number	9381-00-0001B	Page	3/4	Amendment	
----------------	---------------	------	-----	-----------	--

Product name
T-938

Drawing name
T-938 Thermal recorder SPECIFICATIONS

3. EXTERNAL VIEW OF T-938



Drawing number	9381-00-0001B	Page	4/4	Amendment
----------------	---------------	------	-----	-----------