



**W100
Air Station
User Manual**

Thank you for purchasing Temtop instruments.

Before using the instrument, please read this manual carefully. You can obtain information about safety, instrument performance, usage, and maintenance, which will help you use the instrument better. Please keep this manual properly for reference at any time.

In order to improve the performance and reliability of the components and the whole machine, we will make some changes to the hardware or software of the instrument from time to time, which may be inconsistent with the contents of the manual.

Please understand. If you find any problems during use, please contact our customer service.

Important!

- ★ Do not use the detector for a long time in high temperature, high humidity, strong magnetism or dusty environment to ensure accurate measurement.
- ★ Children should only use this device under adult supervision. Keep packaging materials, such as plastic bags and plastic wrap, out of the reach of children as they present a choking hazard.
- ★ Do not dismantle the unit yourself. In the event of a defect, contact your dealer instead, who will liaise with the service center and, if necessary, send the device in for repair.
- ★ This product is intended to be used as a healthy living reference and not as a measuring device!

Overview



- | | |
|---|--|
| ① Weather forecast | ② Outdoor temperature and humidity display |
| ③ Moon phase, barometric pressure and comfort display | ④ Date, day of the week, and time |
| ⑤ Indoor temperature and humidity display | ⑥ City display |
| ⑦ Outdoor transmitter | |
| ⑧ SNOOZE/LIGHT button | ⑨ SET button |
| ⑩ ALERT button | ⑪ UP/CH button |
| ⑫ DOWN/MEM button | ⑬ ALARM button |
| ⑭ CITY button | ⑮ Bracket |

Specifications

Specification parameters		
Model version	W100-US	W100-EU
Indoor unit dimensions	192*121*21mm	
Indoor main unit screen size	160*80 mm	
Outdoor temperature and humidity sub-unit	Dimensions: 46 x 25.5 x 95 mm; Display: 27.5 x 27.5 mm. Default 1, maximum 3, low voltage host indicator. Three channels available, default channel 1, DIP switch setting.	
Weather forecast	Weather trends and conditions for the next 12 hours. 5 types of weather display: sunny, cloudy, overcast, rain, snow.	
Interface language	English	
Day language (only for days of the week)	Supports seven languages: English, German, French, Italian, Dutch, Spanish, and Danish.	
Time format	12/24-hour format selectable.	
Indoor temperature	Range: -10°C ~ 50.0°C, accuracy: ±1°C (0 ~ 50°C), accuracy ±2°C for the rest of the range, display LL.L when exceeding the lower value, display HH.H when exceeding the upper value.	
Indoor humidity	Range: 1%RH ~ 99%RH, accuracy: ±5%, displays 1% when exceeding the lower value, displays 99% when exceeding the upper value.	
Outdoor temperature	Range: -40.0°C ~ 60.0°C, accuracy: ±1°C, displays LL.L when below the lower limit, displays HH.H. when above the upper limit.	
Outdoor humidity	Range: 1%RH ~ 99%RH, accuracy ±5%, displays 1% above the lower value and 99% above the upper value.	
Temperature unit	°C/°F switchable	
Temperature trend	Upward, flat, downward	
Maximum/minimum temperature and humidity	24-hour maximum and minimum temperature and humidity values, automatically cleared and recalculated at 0:00 every day.	
Comfort display	1. Too dry (1%-25%) 2. Dry (26%-39%) 3. Good comfort (40%-75%) 4. Humid (76%-83%) 5. Too humid (84%-99%) Indicator	
Outdoor temperature alarm	Outdoor unit temperature alarm, with high and low temperature thresholds that can be set for all three channels.	
Outdoor frost point alarm	When the temperature is between 0 and 2.9°C, the frost point alarm symbol ‘❄️’ flashes. When the temperature is below 0°C, the frost symbol ‘❄️’ is displayed continuously.	
Atmospheric pressure	Range: 600~1100 hPa (450~825 mmHg), accuracy ±5 hPa hPa/mb, mmHg units can be set	
Sunrise and sunset in the city	162 cities (United States)	150 cities (Europe)
Moon phase	12 lunar phases, calculated according to the lunar calendar, updated daily at 17:00.	
Backlight brightness	5 levels (plugged in), 3% level-10% level-50% level-100% level-off, battery power: 15 seconds of high brightness before turning off.	
Keypress sound	Can be set to on/off	
Alarm clock*	2-minute alarm duration, gradually increasing in intensity. Press the top button briefly to snooze for 5 minutes, unlimited times. Press and hold the top button for 2 seconds or press the back button briefly to turn off the alarm. Default setting is off.	

*When the alarm sounds, temperature and humidity detection will be suspended.

Radio frequency	433 MHz, Open distance 100 metres
Battery, battery life	Main unit: Long battery life, 3 AAA batteries, can also operate when DC power is disconnected. Subunit: 2 AAA batteries, 8 months.
Power cord	DC 5V, no adapter
Default	Time: 0:00 Date: 2023.01.01 Date format: D/M Time format: 24HR Temperature unit: °C(European version), °F(US version) Weather forecast: Partly cloudy Pressure unit: hPa/mb Language: English City: Berlin (European version), New York (US version) Alarm: AM 6:30 (OFF)

Button

SET Button

Pattern	Operation	Status
Standard time mode	Long press for 2 seconds	Enter clock setting mode.
Time setting mode	Short press	Confirm and proceed to the next setting.
Alarm clock alarm mode	Short press	Turn off the alarm.

UP/CH Button

Pattern	Operation	Status
Standard time mode	Short press	Switch display sub-unit data.
	Long press for 2 seconds	Rescan and connect the sub-unit.
When setting the time, alarm clock, city, etc.	Short press	Increment parameter by one step.
	Long press	The parameters increase at a rate of 8 steps per second.
Alarm clock alarm mode	Short press	Turn off the alarm.

DOWN/MEN Button

Pattern	Operation	Status
Standard time mode	Short press	View the maximum/minimum outdoor/indoor temperature and humidity records in sequence.
	Long press for 2 seconds	Clear the current maximum and minimum value records in MEM view mode.
When setting the time, alarm clock, city, etc.	Short press	Decrease the parameter by one step.
	Long press	The parameters decrease at a rate of 8 steps per second.
Alarm clock alarm mode	Short press	Turn off the alarm.

CITY Button

Pattern	Operation	Status
Standard time mode	Short press	Enter city selection settings.
	Long press for 2 seconds	Enter the city single letter selection settings and select three letters in total.
Alarm clock alarm mode	Short press	Turn off the alarm.

ALERT Button

Pattern	Operation	Status
Standard time mode	Short press	View temperature alarm values.
	Long press for 2 seconds	Enter the temperature alarm settings. Once the settings are complete, the alarm will be automatically enabled.
Alarm clock alarm mode	Short press	Turn off the alarm.

ALARM Button

Pattern	Operation	Status
Standard time mode	Short press	Check the current alarm time.
Alarm time mode	Short press	Turn alarm on/off.
	Long press for 2 seconds	Enter alarm clock settings mode.
Alarm clock setting mode	Short press	Confirm and proceed to the next setting.
Alarm clock alarm mode	Short press	Turn off the alarm.

SNOOZE/LIGHT Button

Pattern	Operation	Status
Standard time mode (DC power supply)	Short press	Adjust brightness levels, divided into 5 levels.
	Long press for 2 seconds	Turn light sensor mode on/off.
Standard time mode (battery powered)	Short press	Turn on backlight for 15 seconds.
Any setting mode	Short press	Return to normal display mode.
Alarm clock alarm mode	Short press	Enter snooze mode (alarm will sound in 5 minutes).
	Long press for 2 seconds	Turn off the alarm.
Sleep mode	Long press for 2 seconds	Exit snooze mode and stop the alarm.

Operation

When entering settings, only display the corresponding settings content, and hide other display content.

• Time settings

In normal time display mode, press and hold the **SET** button for 2 seconds to enter time setting mode. The setting items flash at a frequency of 1 Hz. Press the **UP/CH** button or **DOWN/MEN** button briefly to set the parameters, and press the **SET** key briefly to select the setting items in the following order:

BP(OFF/ON)→EN/RU(City English/Russian selection)→Year→Month→Day→24/12HR→Hour→Minute
→°C/°F→Atmospheric pressure units→Exit



Keypad tones enabled



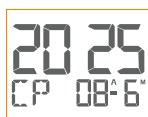
Keypad tones off



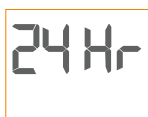
Russian



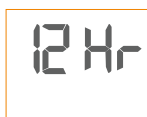
English



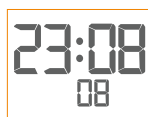
Date, day of the week



24HR



12HR



Time



°C



°F



unit

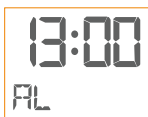


unit

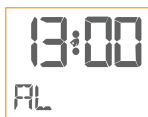
• Alarm clock settings

In the normal display interface, briefly press the **ALARM** button to enter the alarm time setting mode, then press and hold the **ALARM** button for 2 seconds to enter the alarm time setting. Briefly press the **UP/CH** button or **DOWN/MEN** button to set the parameters, and briefly press the **ALARM** button to select the settings in sequence:

Hours→Minutes→Exit.



Hours and minutes



Alarm clock function enabled

● **City settings**

In time display mode, briefly press the **CITY** button to enter city scrolling selection. Press the **UP/CH** button or **DOWN/MEN** button to scroll up or down through cities.

In time display mode, press and hold the **CITY** button to enter single-letter city selection settings. After pressing the **UP/CH** button or **DOWN/MEN** button to change the letter, press the **CITY** button to enter the next letter setting. After setting three letters, press **CITY** button to exit. After confirming and exiting the settings, sunrise and sunset are being calculated, and '--:--' flashes on the screen. If the city is not on the list, after exiting the settings, both the city and sunrise and sunset locations will display '--:--', indicating an error with the city.



City

- Note:
- 1) City names are displayed in three characters. For details, please refer to the attached table.
 - 2) If the city setting is for the European version, only the European version city appendix can be referenced; if it is for the American version, only the American version appendix can be referenced.

Function and Effect Description

● **View maximum and minimum values**

The maximum and minimum values are the maximum and minimum values within 24 hours. In normal time display mode, press the **DOWN/MEN** button once to view the maximum and minimum temperature/humidity values. The display sequence is as follows:
MAX value display → MIN value display → current value display (cycling in sequence).
When displaying MAX/MIN values, press and hold the **DOWN/MEN** button for 2 seconds to clear the record. When clearing, the temperature and humidity will display --.-/--.
When displaying the maximum and minimum values, no button operation for 3 seconds will return to the current temperature and humidity value display.
Automatically clears the maximum and minimum indoor and outdoor temperatures and humidity values every day at 0:00.

● **Air pressure value display**

Four barometric pressure values are displayed.
Barometric pressure detection range: 600–1100 hPa (450–825 mmHg).
Barometric pressure units: hPa/mb, mmHg.

● **Weather forecast function**

Sunny, partly sunny, cloudy, rain, snow. The weather forecast refers to the weather trends and conditions for the next 12 hours.



● **Frost point alarm**

When the outdoor temperature is between 0 and 2.9°C, the frost point alarm symbol '❄️' flashes. When the temperature is below 0°C, the frost symbol '❄️' is displayed continuously.

● Moon phase display

There are 12 phases of the moon. When it is full, the entire moon is black. According to the lunar calendar, the moon phase is updated every day at 17:00.

30 th , 1 st , 2 nd	3 rd , 4 th	5 th , 6 th	7 th , 8 th , 9 th	10 th , 11 th	12 th , 13 th , 14 th
New Moon	Waxing Crescet		First Quarter	Waxing Gibbous	
15 th , 16 th , 17 th	18 th , 19 th	20 th , 21 th	22 th , 23 th , 24 th	25 th , 26 th	27 th , 28 th , 29 th
Full Moon	Waning Gibbous		Last Quarter	Waning Crescet	

● RF Reception Instructions

After power-on detection of temperature and humidity, automatically enter RF reception for 3 minutes. When all 3 channels are received, immediately exit.
During the pairing registration process, only the RF receiver flashes, the data does not flash, no data is received, or the code is dropped. After 1 hour, ‘--.’ is displayed.
Press the **UP/CH** button briefly to switch between three different outdoor temperature and humidity channels. The display sequence is: CH1 → CH2 → CH3 → automatic cycle (switching once every 5 seconds).
In standard mode, press and hold the **UP/CH** button to force clear the current outdoor channel data and re-register. When the receiver pairing lasts for 3 minutes, CH1 is displayed by default. Even if CH2 or CH3 channels receive signals first, the receiver will not automatically switch to the channel that received the signal.
When there is a conflict between RF and alarm, the priority order is: alarm clock → RF.

Warranty

Temptop warrants the included detector for 1 year from the date of original purchase. The item can be exchanged or returned within 30 days if the defect is not caused by artificial damage.

Item	Warranty Period
Detector	1 year
Accessories	N/A

Before return or delivery for repair, please check if the following √ items are ready:

	Detector & Accessories	Complete package	Proof of purchase*	Gift(if any)
Return	√	√	√	√
Exchange	√	√	√	
Repair	√		√	

- * Including invoice, order number and etc.
Temptop warranty does NOT include:
- Malfunction or damages caused by artificial damage or modification.
 - Other deliberate damages.
 - Damage caused by natural events.

Appendix

1) European cities(only for European version devices): Display three digits, 150 cities as shown in the table below:

	City name	Abbreviation		City name	Abbreviation		City name	Abbreviation
1	Aachen	AAC	51	Cherbourg	CHE	101	Oslo	OSL
2	Berlin	BER	52	Lyon	LYO	102	Stavanger	STA
3	Dusseldorf	DUS	53	Marseille	MAR	103	Amsterdam	AMS
4	Dresden	DRE	54	Monaco	MON	104	Eindhoven	EIN
5	Erfurt	ERF	55	Metz	MET	105	Enschede	ENS
6	Frankfurt	FRA	56	Nantes	NAN	106	Groningen	GRO
7	Flensburg	FLE	57	Nice	NIC	107	The Hague	HAG
8	Freiburg	FRE	58	Orleans	ORL	108	Rotterdam	ROT
9	Hannover	HAN	59	Paris	PAR	109	Evora	EVO
10	Bremen	BRM	60	Perpignan	PPA	110	Coimbra	COI
11	Hamburg	HAM	61	Lille	LIL	111	Faro	FAR
12	Rostock	ROS	62	Rouen	ROU	112	Leiria	LEI
13	Stralsund	STR	63	Strasbourg	STB	113	Lisbon	LIS
14	Cologne	COL	64	Toulouse	TOU	114	Porto	POR
15	Kiel	KIE	65	Helsinki	HEL	115	Gdansk	GDA
16	Kassel	KAS	666	Aberdeen	ABD	116	Krakow	KRA
17	Leipzig	LPZ	67	Belfast	BEL	117	Poznan	POZ
18	Munich	MNI	68	Birmingham	BIR	118	Szczecin	SZC
19	Magdeburg	MAG	69	Bristol	BRI	119	Warsaw	WAR
20	Nuremberg	NUR	70	Edinburgh	EDI	120	St Petersburg	PET
21	Regensburg	REG	71	Glasgow	GLA	121	Gothenburg	GOT
22	Stuttgart	STU	72	London	LON	122	Stockholm	STO
23	Saarbrücken	SAA	73	Manchester	MAN	123	Bratislava	BRV
24	Schwerin	SCH	74	Plymouth	PLY	124	Ljubljana	LJU
25	Aalborg	ALB	75	Budapest	BUD	125	Belgrade	BGD
26	Aarhus	ARH	76	Zagreb	ZAG	126	Graz	GRZ
27	Copenhagen	COP	77	Ancona	ANC	127	Innsbruck	INN
28	Odense	ODE	78	Bari	BAI	128	Linz	LIN
29	Alicante	ALI	79	Bologna	BOL	129	Salzburg	SZB
30	Andorra	AND	80	Cagliari	CAG	130	Vienna	VIE
31	Badajoz	BAD	81	Catania	CAT	131	Antwerp	ANT
32	Barcelona	BAR	82	Firenze	FIR	132	Bruges	BRU
33	Bilbao	BIL	83	Foggia	FOG	133	Brussels	BRs
34	Cadiz	CAD	84	Genoa	GEN	134	Charleroi	CHA
35	Cordoba	COR	85	Lecce	LEC	135	Liege	LIE
36	Ibiza	IBI	86	Messina	MES	136	Basel	BAS
37	A Coruna	ACO	87	Milan	MIL	137	Bern	BEN
38	Leon	LEO	88	Naples	NAP	138	Chur	CHU
39	Las Palmas	LPA	89	Palermo	PAL	139	Geneva	GNV
40	Madrid	MAD	90	Parma	PRM	140	Locarno	LOC
41	Malaga	MAL	91	Perugia	PER	141	Lucerne	LUC
42	Palma(ES-Majorca)	PLM	92	Rome	ROM	142	St.Moritz	MOR
43	Salamanca	SAL	93	Turin	TUR	143	St.Gallen	GAL
44	Sevilla	SEV	94	Trieste	TRI	144	Sion	SIO
45	Valencia	VAL	95	Venice	VEN	145	Vaduz	VAD
46	Zaragoza	ZAR	96	Verona	VER	146	Zurich	ZUR
47	Besancon	BES	97	Imperia	IMP	147	Prague	PRA
48	Biarritz	BIA	98	Dublin	DUB	148	Athens	ATH
49	Bordeaux	BOR	99	Luxemburg	LUX	149	Bucharest	BUC
50	Brest	BRE	100	Bergen	BRG	150	Sofia	SOF

2) US cities(only for US version devices): Display three digits, 162 cities as shown in the table below

	City name	Abbreviation		City name	Abbreviation		City name	Abbreviation
1	New York	NYC	55	Bakersfield	BFD	109	Fontana	FTA
2	Los Angeles	LOS	56	Aurora	AUR	110	Rochester	RCT
3	Chicago	CHI	57	Honolulu	HON	111	Oxnard	OND
4	Houston	HOU	58	Anaheim	ANA	112	Moreno Valley	MVY
5	Phoenix	PHO	59	Santa Ana	SAI	113	Fayetteville	FTE
6	Erie	ERI	60	Corpus Christi	CCI	114	Aurora	ARA
7	San Antonio	SAN	61	Riverside	RSE	115	Glendale	GDE
8	San Diego	SDD	62	Lexington	LTN	116	Yonkers	YKS
9	Dallas	DAL	63	St. Louis	SLS	117	Huntington Beach	HUN
10	San Jose	SJE	64	Stockton	STO	118	Columbia	COL
11	Austin	AUS	65	Pittsburgh	PIT	119	Montgomery	MGY
12	Jacksonville	JSV	66	Saint Paul	SPL	120	Amarillo	AML
13	San Francisco	SFO	67	Cincinnati	CIN	121	Little Rock	LRC
14	Columbus	CLB	68	Anchorage	ANC	122	Akron	AKR
15	Indianapolis	IND	69	Henderson	HDS	123	Columbus	CLS
16	Philadelphia	PHL	70	Greensboro	GSO	124	Augusta	AUG
17	Fort Worth	FWH	71	Plano	PLA	125	Grand Rapids	GRS
18	Charlotte	CHA	72	Newark	NEW	126	Shreveport	SPT
19	Seattle	SEA	73	Lincoln	LIN	127	Salt Lake City	SLC
20	Denver	DEN	74	Toledo	TOL	128	Huntsville	HSE
21	El Paso	EPO	75	Orlando	ORL	129	Mobile	MOB
22	Washington DC	WDC	76	Chula Vista	CVA	130	Tallahassee	TAL
23	Boston	BOS	77	Irvine	IRV	131	Grand Prairie	GPE
24	Detroit	DET	78	Fort Wayne	FWF	132	Overland Park	OPK
25	Nashville	NAS	79	Jersey City	NJC	133	Knoxville	KVE
26	Memphis	MEM	80	Durham	DUR	134	Port St. Lucie	PSL
27	Portland	POR	81	Saint Petersburg	SPB	135	Worcester	WCT
28	Oklahoma city	OKC	82	Laredo	LAR	136	Brownsville	BSE
29	Las Vegas	LAS	83	Buffalo	BUF	137	Tempe	TEM
30	Louisville	LOU	84	Madison	MAD	138	Santa Clarita	SCA
31	Baltimore	BAL	85	Lubbock	LUB	139	Newport News	NNS
32	Milwaukee	MIL	86	Chandler	CHD	140	Cape Coral	CCL
33	Albuquerque	ALB	87	Scottsdale	SCO	141	Providence	PVD
34	Tucson	TUC	88	Glendale	GLD	142	Fort Lauderdale	FLE
35	Fresno	FRE	89	Reno	REN	143	Chattanooga	CTA
36	Sacramento	SAC	90	Norfolk	NOR	144	Rancho Cucamonga	RCA
37	Mesa	MES	91	Winston-Salem	WSM	145	Oceanside	OCE
38	Kansas City	KAN	92	North Las Vegas	NLV	146	Santa Rosa	SRA
39	Atlanta	ATL	93	Irving	IVI	147	Garden Grove	GGE
40	Long Beach	LBC	94	Chesapeake	CSE	148	Vancouver	VCR
41	Colorado Springs	COS	95	Gilbert	GIL	149	Sioux Falls	SFS
42	Raleigh	RAL	96	Hialeah	HIA	150	Ontario	ONT
43	Miami	MIA	97	Garland	GAR	151	McKinney	MKY
44	Virginia beach	VAB	98	Fremont	FRM	152	El Segundo	EGE
45	Fairfax	FAX	99	Arlington	ATN	153	Jackson	JAC
46	Omaha	OMA	100	Baton Rouge	BRE	154	Pembroke Pines	PPS
47	Oakland	OAK	101	Richmond	RMD	155	Salem	SAL
48	Minneapolis	MIN	102	Boise	BOI	156	Springfield	SFD
49	Tulsa	TUL	103	San Bernardino	SBD	157	Wilmington	WIL
50	Arlington	ARL	104	Spokane	SKE	158	Cheyenne	CYE
51	New Orleans	NOL	105	Des Moines	DMO	159	Fargo	FRG
52	Wichita	WIC	106	Modesto	MDT	160	Bridgeport	BRI
53	Cleveland	CLE	107	Birmingham	BMH	161	Manchester	MAN
54	Tampa	TAM	108	Tacoma	TAC	162	Billings	BIL

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