

HTE80 Digital Temperature Gauge



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Overview

HTE80 electronic digital thermometer uses high-quality and highly stable PT100 or PT1000 as the sensing element, with a dedicated electronic conditioning circuit, and is assembled and produced through a strict process flow. The product is battery-powered, can accurately display the temperature value in real time, and has the characteristics of high precision and good long-term stability. The product is equipped with a large LCD screen, supports 5-digit display, and has functions such as power prompt, peak and valley value recording, backlight, power on and off, and progress bar display.

This digital thermometer is widely used in hydropower, tap water, petroleum, chemical industry, machinery, hydraulic and other industries to measure and display the temperature of gas, water, oil and other media that are non-corrosive of stainless steel on site.

Features

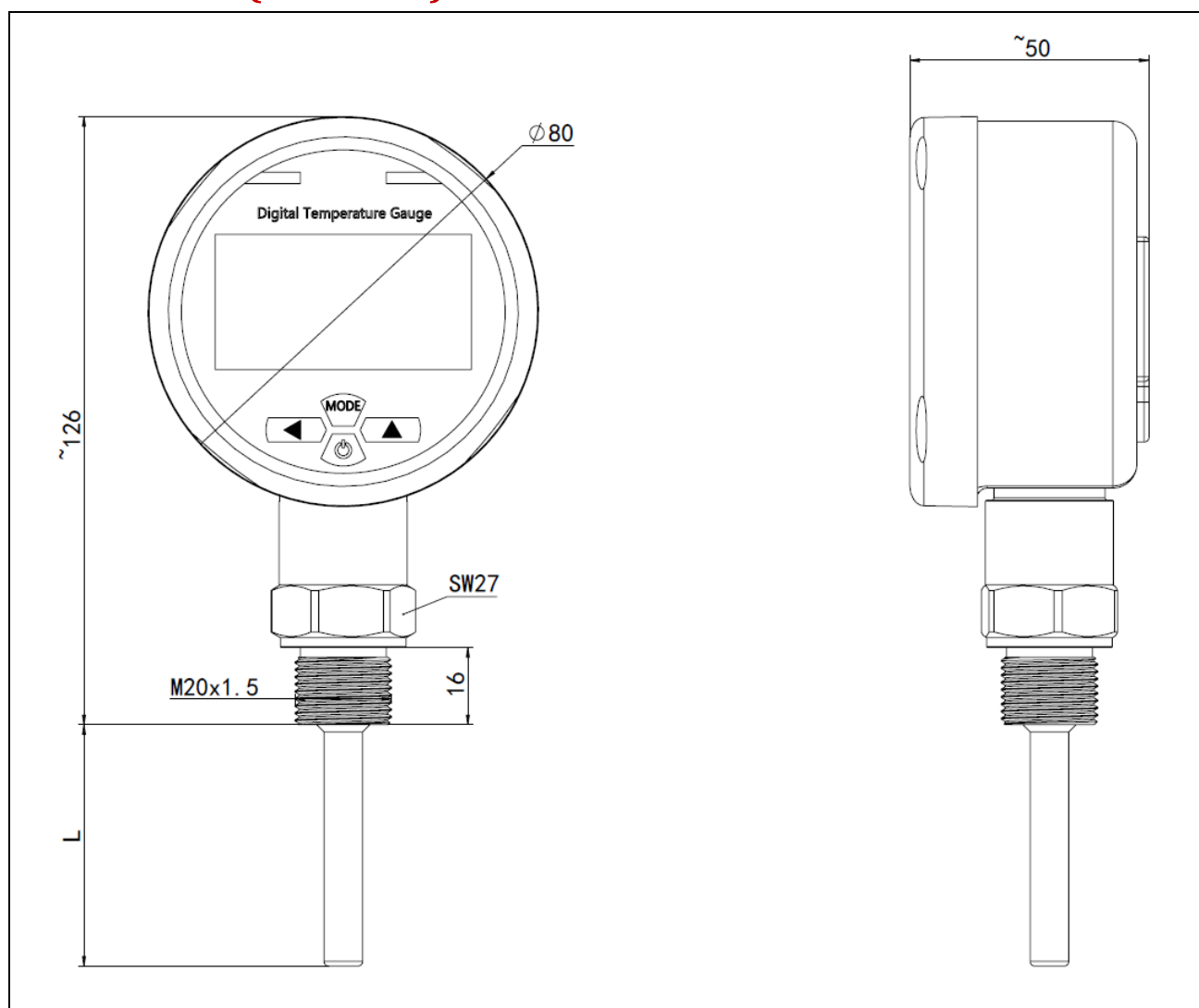
- ◆ Large LCD screen, supports 5-digit display
- ◆ Battery powered
- ◆ Comprehensive functions, easy operation
- ◆ Multiple process connections available
- ◆ Good long-term stability

Technical Parameters

Temperature Range	-50...0~50...500°C
Measuring Medium	various liquid, gas compatible with wetted material
LCD Display Digits	5-bits
LCD Display Range	-19999~99999
LCD Display Content	Simulation progress bar display, remaining power display, peak and low value record display
Power Supply	3V (2*AAA battery)
Battery Life	≥6 months (depending on the specific working conditions)
Power Consumption in Shutdown State	<10uA
Accuracy	±0.5°C (-50°C≤Range≤100°C) ±1.0°C (-50°C≤Range≤300°C) ±3.0°C (-50°C≤Range≤500°C)
Backlight Time	15 seconds, 30 seconds, 60 seconds, always on demand. 30 seconds by default.

Auto power off time	300 seconds, 600 seconds, 900 seconds, 1800 seconds, 3600 seconds, always on. 3600 seconds by default.
Sampling rate	0.33 seconds/time, 1 second/time, 2 seconds/time, 3 seconds/time, 4 seconds/time, 5 seconds/time. 1 second/time by default
Ambient Temperature	-20~50°C
Storage Temperature	-20~50°C
Protection Grade	IP54
Vibration	10g(20~2000Hz)
Impact resistance	100g(11ms)

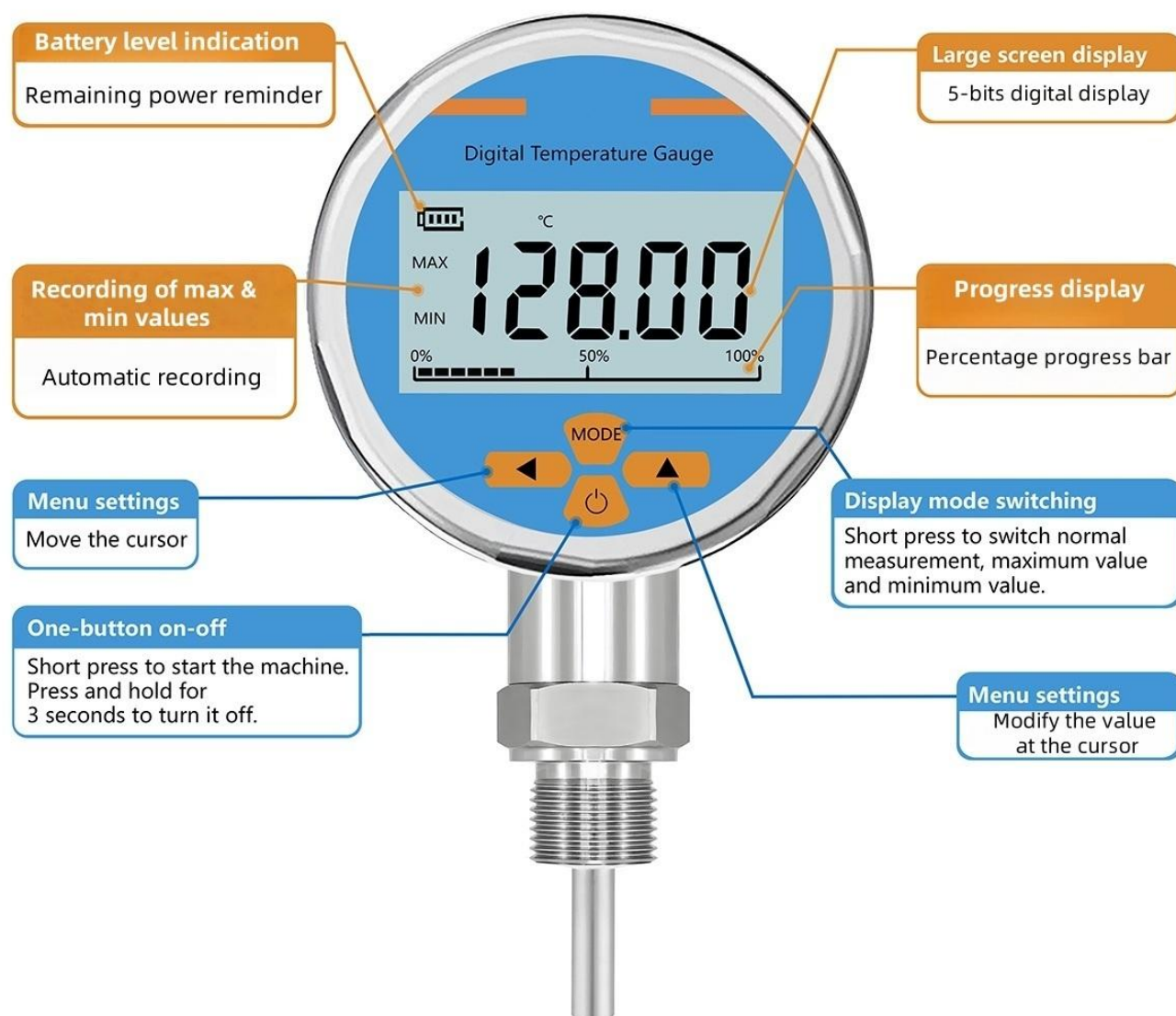
Dimensions (Unit: mm)










Structural Materials

Ordering Code	Part	Note
S4	Housing	Stainless steel 304 (By default)
S4	Wetted parts	Stainless steel 304 (By default)
S6		Stainless steel 316L
X		Customized

Functional Instructions



Key Operation

Key		Note
	Power ON/OFF	<ol style="list-style-type: none"> 1. Power on/off In the shutdown state, short press the "power ON/OFF" key to turn on the machine. In measurement state, long press the "power ON/OFF" key for 3 seconds to turn off the machine 2. Backlight switch In power on state, short press the "power ON/OFF" key to turn on or off the backlight
	Mode	Short press the "MODE" key to switch between normal measurement, maximum value mode, and minimum value mode. Long press the "MODE" key to enter the password input state of the menu setting.
	Shift	In the password input state, use the "Shift" key to move the cursor. In the modification state in the menu setting, use the "Shift" key to change the value.
	Modify	<ol style="list-style-type: none"> 1. Modify parameters In the password input state and the modification state in the menu setting, use the "modify" key to change the value 2. Clear the max and min value records In the measurement state, short press the "modify" key to clear the maximum and minimum value records
Parameters Setting		
Operation		<p>Long press the "MODE" key to enter the password input state, the "Shift" moves the cursor, the "Modify" changes the value at the cursor, enter the password "00001", and short press the "MODE" key to confirm entering the menu setting state.</p> <p>Parameter settings are divided into viewing state and modification state. In the viewing state, press the "Shift" or "Modify" to turn the menu, and press the "MODE" key to enter the modification state. In the modification state, press the "Shift" or "Modify" to modify the parameter value, and press the "MODE" key in the modification state to return to the viewing state.</p> <p>YES/NO: Save and exit, YES: Save, NO: Do not save</p>
		Backlight time setting, can be set to 15 seconds, 30 seconds, 60 seconds, or always ON.
		Automatic shutdown time can be set to 300 seconds, 600 seconds, 900 seconds, 1800 seconds, 3600 seconds, or normally open/ON.
		The acquisition rate setting can be set to 0.33 seconds/time, 1 second/time, 2 seconds/time, 3 seconds/time, 4 seconds/time, 5 seconds/time.

Ordering Guide

Code	Type					
HTE80	Digital Temperature gauge					
	Temperature Range (T1 ~ T2)°C	Measuring Range				
		T1 is the lower limit of the range T2 is the upper limit of the range				
		Code	Thread Spec			
		P1	M20×1.5 male			
		G12	G1/2 male			
		G14	G1/4 male			
		K505	Tri-Clamp 1-1/2" ISO 2852 DN38 DIN 32676 DN32-40			
			Code	Probe Length		
			L	L=insertion length(mm)		
				Code	Wetted Part Material	
				S4	304	
				S6	316L	
				X	Customized	
					Code	Others
					QF	Factory report
						Others requests
eg:HTE80	(0 ~ 100)°C	P1	L=30	S4		