

Introduction

TYM-A series water leak detector is a multi-functional intelligent leak detector specially designed for pressure pipeline leakage. This series of instruments is suitable for water leakage detection of tap water, fire pipeline, heating and other pressure pipelines. It detects the sound and leakage signal of the leakage area. Collection and analysis, and can be used in conjunction with the tracer gas detection mode to achieve precise positioning and effectively solve the problem of leakage detection in pressure pipelines. It is a multi-functional indoor and outdoor intelligent pipeline leak detector.

Components



Host



Bag



Gas Sensor



Outdoor Sensor



Indoor Sensor



Handle connector



Telescopic pole



Probe



headphones



Host strap



Headphone cable



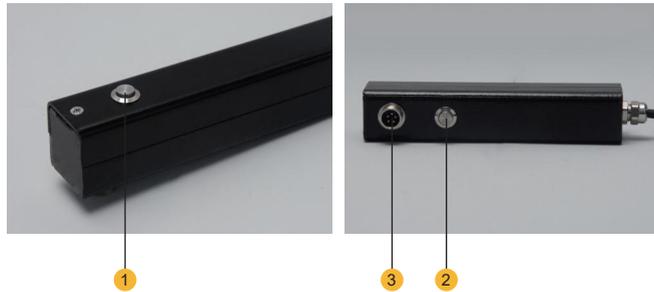
5V, Type-c charger

Description



- ① **Power button** (press and hold for about 3 seconds to turn on or off)
- ② **Reset button** (host reset)
- ③ **TYPE-C interface** (charging, connecting to computer)
- ④ **Headphone jack** (for connecting noise-proof headphones)
- ⑤ **Strap buckle** (connected to the host strap)
- ⑥ **Five-core metal aviation plug** (used to connect the handle, and the handle end is connected to the probe)
- ⑦ **Indicator light** (power on indicator light and charging indicator light)
- ⑧ **SD card slot** (system upgrade, file storage)

Handle description



- ① **Self-reset button** (press to turn on the signal input, release to turn off the signal input, just use it according to your usage habits)
- ② **Self-locking button** (press to lock to open signal input, press again to close signal input, just use it according to your usage habits)
- ③ **Five-core metal aviation plug** (two aviation plugs, with the wire end connected to the host and the aviation plug end connected to the probe)

Parameters

Model	TYM-4A	TYM-5A	TYM-6A	TYM-7A
Application	Outdoor pipeline	Outdoor pipeline	Outdoor indoor pipeline	Outdoor indoor pipeline
Sensor	Gas Sensor	Outdoor Sensor Connect handle	Outdoor Sensor Indoor Sensor Connect handle	Outdoor Sensor Indoor Sensor Gas Sensor Connect handle
Operate mode	Gas detection	Regional detection AI Locating	indoor outdoor	Acoustic detection&Gas detection
Frequency Range	/	100Hz-8000Hz		
Gain	/	6 levels adjustable		
Volume	/	10 levels adjustable		
Signal-to-noise ratio	60dB			
Sensitivity	-29dB, 70mv/g			
Display	7 inch display			
Resolution	800*480			
Working temperature	-20°C~+50°C			
Charging time	8 hours			
Standby time	15 hours			
Power	≈2W			
Charger	5V 2A Type-c Charger			
Weight (host, sensor)	Host: 0.8Kg, Outdoor sensor: 0.3Kg, Indoor sensor: 0.35Kg, Gas sensor: 0.15Kg			
Size (host, sensor)	Host: 200mm × 130mm × 42mm, Outdoor sensor: 70mm × 70mm × 64.8mm, Indoor sensor: 42mm × 42mm × 56.8mm, Gas sensor: 31mm × 31mm × 83mm			

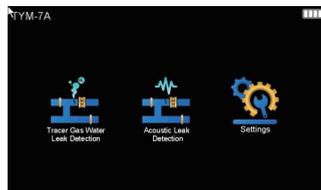
Operation (TYM-7A Under Night mode as an example)

1. Install the host strap, connect the corresponding probes, and the aviation sockets correspond one to one.
2. Press and hold the "On/Off" button to turn the host and enter the boot interface.



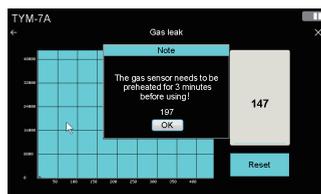
(Figure 1)

3. Entering the main interface, there are two modes to choose from: gas detection and acoustic detection.



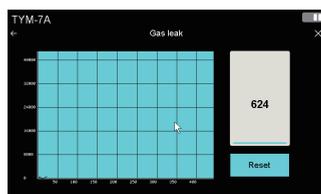
(Figure 2)

4. Click Tracer Gas Water Leak Detection to enter the interface.



(Figure 3)

Interface prompt: When using the gas sensor, it needs to be preheated for 3 minutes. After the prompt counts down to 0, click OK to use it. (As shown below)

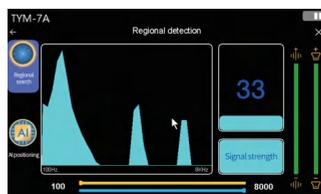


(Figure 4)

This mode can only be used for tracer gas detection

- ① Signal column and numerical display (the higher the gas concentration, the larger the display)
- ② Chart display (the chart will change with the numerical value and signal column size)
- ③ Reset (return signal column and value to 0)

5. Click Acoustic Leak Detection to enter the interface. (Default the regional detection)



(Figure 5)



Frequency adjustment (the frequency range is adjustable from 100Hz to 8000Hz, which can effectively shield the interference from external noise and achieve crisp and high-fidelity sound quality)
Signal strength (bounces based on changes in the size of the detected water leakage signal)

🔊 gain+ 📉 gain- 🔊 Volume+ 🔊 Volume-

6. Click to enter the AI Locating interface.



(Figure 6)

📄 The fifth point has been saved... Status bar (working status prompt)

📄 Export Export (can export the collected signal column pictures)

Signal strength (bounces based on changes in the size of the detected water leakage signal)

- (1) The AI locating interface can display signal columns at 15 points at the same time. By clicking anywhere in the column bar of the corresponding point, the signal column can be locked and refreshed;
- (2) There are 15 signal columns from left to right, and the detection needs to start from 01;
- (3) The signal column is a thick columnar bar, and the thick columnar bar is a stable and effective signal collected;
- (4) Click anywhere in the column bar frame of the corresponding point, a blue column bar will appear, and a red value will be displayed. The column bar and the value will start to change according to the actual signal;
- (5) After the thick column bar signal column is completely stable and does not fall back, click anywhere in the column bar frame. The blue column bar will lock and stop, indicating that the measurement point has been detected. Click any position within the columnar bar frame again to refresh the columnar bar and re-detect it. The operation can be repeated to confirm whether the point signal is true and valid;
- (6) The AI locating mode collects signals and compares the relevant points in the suspected water leakage area. Each detection point can be directly compared with the signal column. Starting from 01, the signal intensity of each point is detected and compared sequentially. When the signal column of the measured point is the highest, the value maximum, it can be judged as a suspected leak point.

7. Click System Settings to enter the setting interface.

☀️ daytime 🌙 dark night

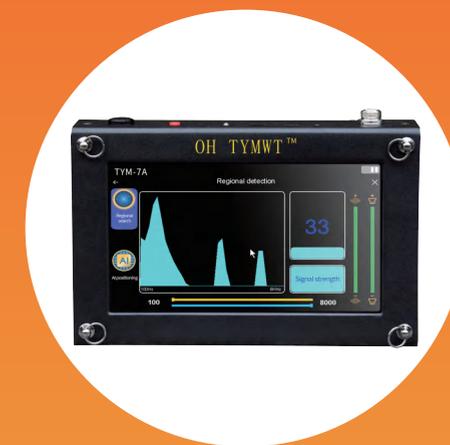
view device parameters and device information

- ① Brightness adjustment (adjust the brightness of the host screen and set it according to your needs)
- ② Language selection (select the host language, set according to needs, can be customized)



(Figure 7)

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TYM-A Series Multifunctional Water Leak Detector Manual

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