

## High Temperature Level Sensor User Manual

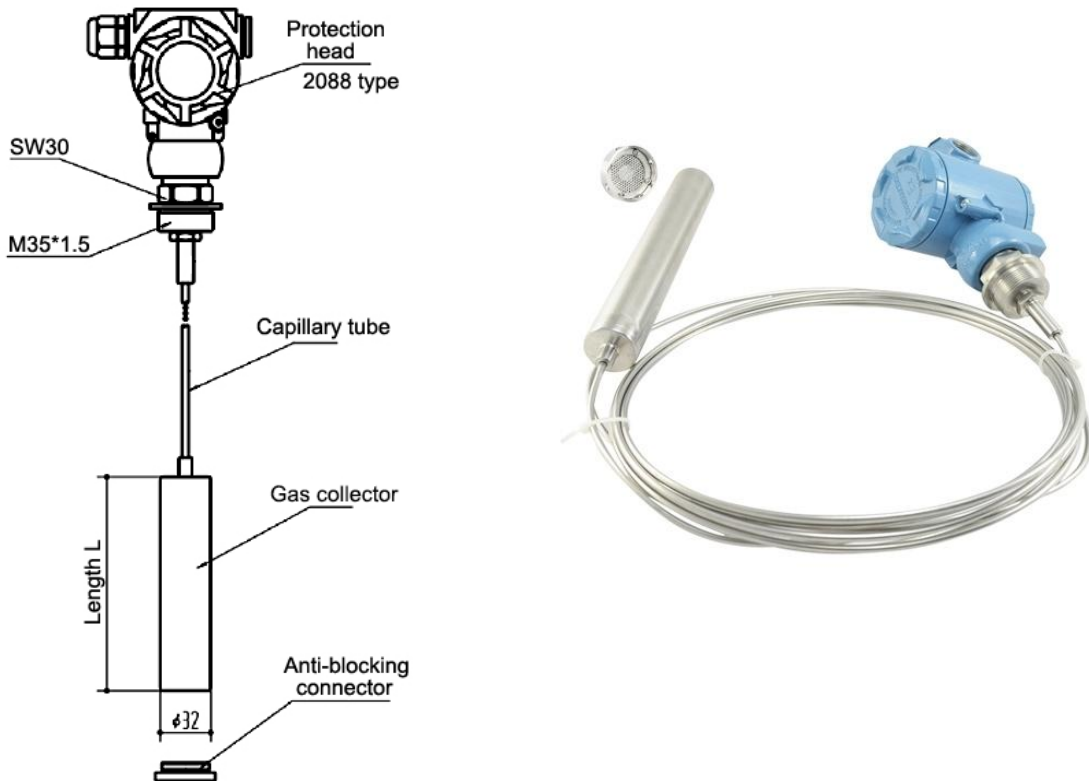
ATO-LEVS-HT20M series high temperature level sensors adopt separated structure and consist of 316L stainless steel gas collector, 316L stainless steel capillary tube and protection head. The sensor and signal processing circuit are designed inside the protection head, the gas collector is put into the measured liquid for collecting the pressure signal. The liquid level pressure signal is collected by the gas in the collector and transmits to sensor by the capillary tube, thereby avoiding the direct contact between the sensor and the measured medium.

ATO-LEVS-HT20M series level sensors with maximum measuring range 20m are suitable for high temperature corrosive liquid, sewage, etc. When measuring sewage, sludge and other media, the anti-blocking connector can be added according to customer requirements.

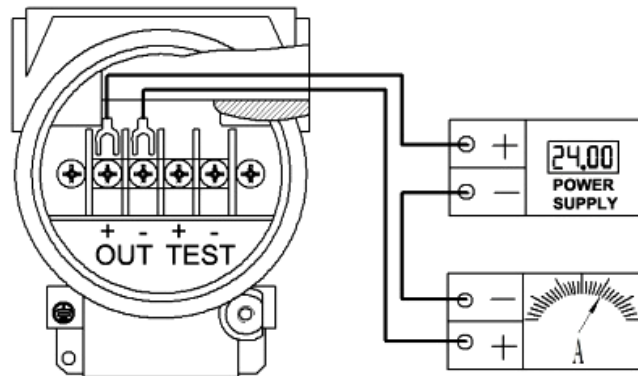
### 1. Specification:

SKU	ATO-LEVS-HT20M
Model	ATO-LEVS-P260G
Shipping weight	3.5kg
Measuring range	0-20m (0-1m, 0-3m, 0-5m, 0-7m, 0-10m, 0-12m, customizable range)
Pressure type	Gauge pressure, absolute pressure
Accuracy	0.5%FS, 0.3%FS
Output signal	2 wire: 4-20mA, 0-20mA
	3 wire: 0-5V, 1-5V, 0-10V
Power supply	DC 24V, DC 12V
Compensation temperature	-10~+70°C (14~140°F)
Working temperature	-40~+150°C (-40~+302°F)
Storage temperature	-40~+125°C (-40~+257°F)
Temperature effect on zero	± 2%FS
Temperature effect on sensitivity	± 2%FS
Overload pressure	150%FS
Mechanical vibration	20g (20-5000Hz)
Impact	100g (11ms)
Long-term stability	± 0.2%FS/year
Response time	≤ 1ms (up to 90%FS)
Insulation	100MΩ /250VDC
Medium	Water, oil, fuel, or other liquid compatible with 316L stainless steel
Material	Gas collector/capillary tube: 316L stainless steel
	Protection head: Aluminum-bronze
Inflator diameter	Φ 32mm
Accessory	316L stainless steel anti-blocking connector
Protection class	IP65
Warranty	12 months

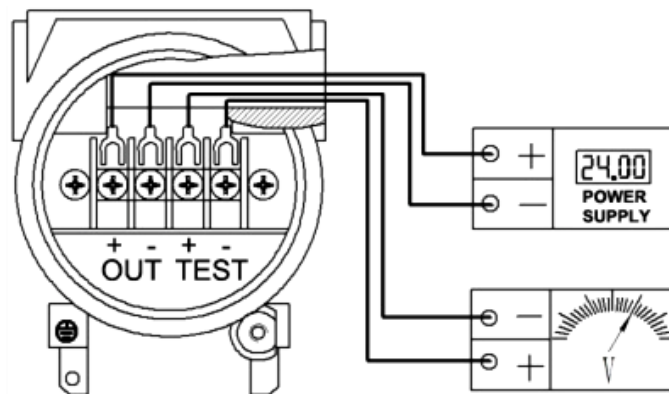
## 2. Dimension (unit: mm):



## 3. Wiring diagram:

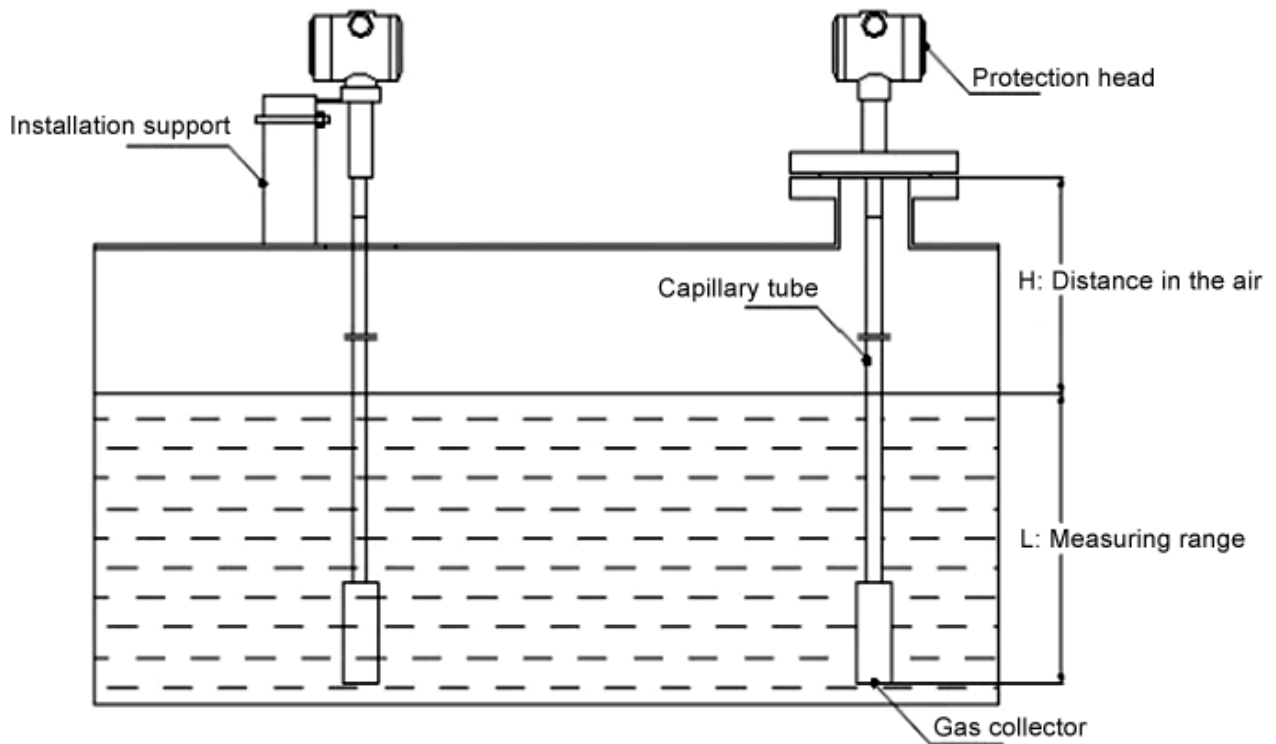


2-wire current output wiring



3-wire voltage output wiring

## 4. Installation diagram:



## 5. Installation notes:

- A. The gas collector should be placed vertically in water, and the angle between the gas collector and the vertical line should not exceed 30°.
- B. The water cannot enter the capillary tube. If water is found in the tube, take out the capillary tube and drain the water away from the tube.
- C. The capillary tube is thin and cannot be bent repeatedly.
- D. If there are too many impurities in the measurement medium, it is recommended to choose an anti-blocking connector.
- E. There is an isolation diaphragm in the pressure inlet of the protection head. Do not touch it with any object.
- F. For electrical connection, strictly follow the wiring diagram. Misconnection will cause damage to the amplifier circuit.
- G. Do not use capillary tube to lift heavy objects other than the gas collector.
- H. The gas collector is dredged regularly to avoid blocking the pressure inlet.