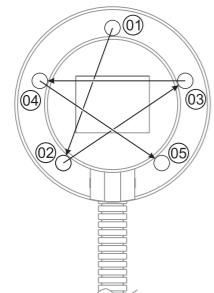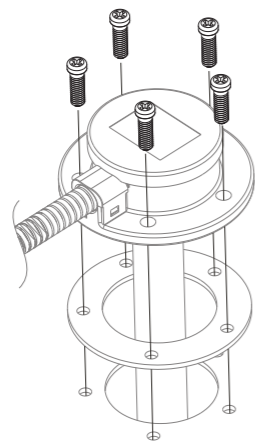## Introduction

GLTV7 Capacitance fuel level sensor is used to continuously detect fuel level by measuring the capacitance variations as the liquid level changes, which can be easily shortened to fit the different tank depths. It can carry out real-time monitoring with GPS tracking system, can directly replace the fuel level sensor and connect the instruments in original car; With the characteristics of strong stability and long service life.

Applications

- Suitable for Vehicle, truck, coach, agrimotor, GPS fleet management, GPS tracking system, generator set, construction machinery and more
- Signal output with high-resolution :1mm
- Continuous and steady output signal
- Length could be trimmed in the field
- The parameters can be conveniently reset and recalibrated with an external calibrator
- Fits different tank sizes, minimizing customer inventory level
- Used for diesel, gasoline and kerosene level measuring
- Compatible with GPS market leading GPS tracker and software to monitor vehicle fuel level at any time
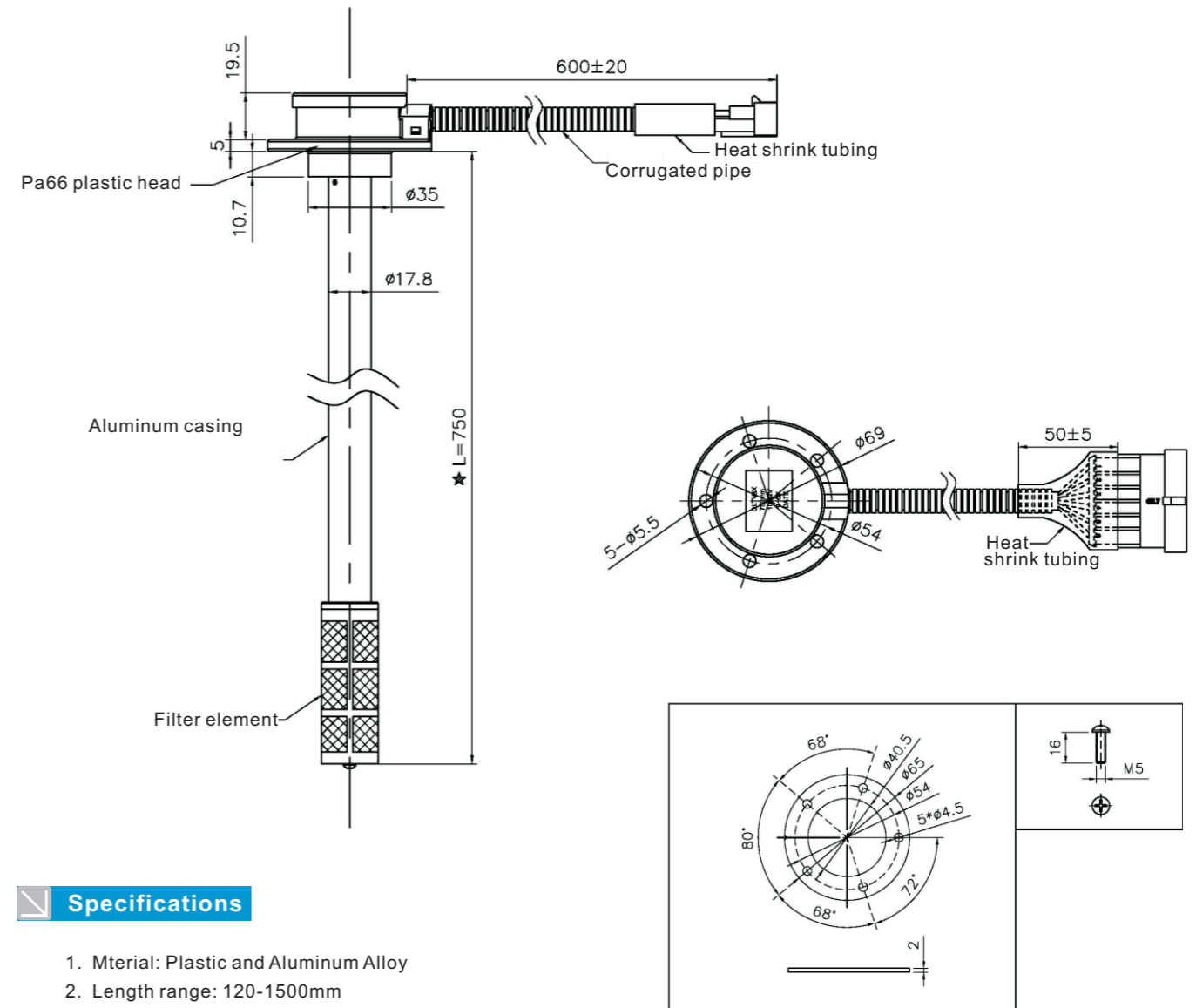
Positioning Sequence Diagram

Installation Diagram

Dimension(mm)

19.5
600±20
Heat shrink tubing
Corrugated pipe
Pa66 plastic head
Ø35
5
10.7
Ø17.8
Aluminum casing
★ L=750
Filter element
Ø69
Ø54
5-Ø5.5
50±5
Heat shrink tubing
68°
Ø40.5
Ø65
Ø54
80°
5*Ø4.5
72°
68°
16
M5
2

Specifications

1. Mterial: Plastic and Aluminum Alloy
2. Length range: 120-1500mm
3. Supply voltages: 10 to 32V
4. Rated current for alarm switch: 500mA
5. Output signal:RS232, RS485
6. Resolution: 1mm
7. Operating temperatures: - 40 to 85°C
8. Protection rank: IP65

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Indicators

Item	Specification
Range	120~1500mm（Can be customized 1500mm）
Medium	Gasoline、Diesel fuel、Kerosen（It can not be used for the conductive medium）
Output	Voltage output：0~5V，0.5~4.5V Digital output：RS232，RS485
Power supply	5V、10-32V
Accuracy	≤1mm
Maximum operating current	<15mA
Operating temperature	-40~+85℃
Frequency	5s/time（Can be customized ）
Wire	PVC material(PA corrugated pipe cover is optional)
Protection rank	IP65
Probe material	Aluminum
Junction Box material	Plastic
Connector	Delphi,Tyco or others is available according to customer's requirements
Mounting	SAE standard 5 holes 5 pieces of M5 screws and 2 mm thick NBR gasket If the fuel tank, it is recommended optional 2mm thick FPM gasket

Mode of connection:

Pin1(Red): VCC(10~32V) /5V ;
Pin2(Blue): V out (0.5~4.5V/   0~3.3V/0~5V/RS232 Rx/RS485 B);
Pin3(Black): GND;
Pin4(Yellow): Connect to calibrator/   RS232 Tx/RS485 A ;
Pin5(Green): Connect to calibrator;
Pin6(Brown): Connect to calibrator;
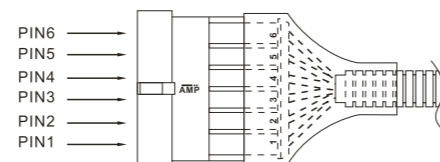
* Ensure connection is correct before connecting the power.

PIN6
PIN5
PIN4
PIN3
PIN2
PIN1

Calibrator:

Calibration of GLTV7sensor is required. The calibrator uses a 12V/23A battery. Under working condition, red light is the power indicator, green light is the calibration indicator. F/E button is shown in above picture.

Note:

For different type of fuel, diesel, oil or medium, calibration is necessary before use. Calibrator battery power could only used for roughly 15 times. Please change the battery when the red light becomes dark, indicating low battery.

Ordering code

GLTV7											
	Code										Sensor type
	F										Fuel level sensor
		Code									Unit
		M									m
		C									cm
		N									mm
			Code								Range
			Xm								120-1500mm(can be customized)
				Code							Medium
				G							Gasoline
				D							Diesel fuel
				K							Kerosen
				X							can be customized
					Code						Output signal
					P1						RS485
					P2						RS232
					P3						0.5-4.5Vdc
					P4						0-5Vdc
						Code					power supply
						V1					10~32Vdc
						V2					5Vdc
							Code				accuracy
							A				1mm
								Code			Junction Box material
								Z			Plastic
									Code		Probe material
									L		Aluminum
										Code	Mounting
										S	SAE standard 5 holes
											Code · Connector
											T1 · connector
											T2 · Without connector
											Code · Appurtenance
											J1 · Calibrator
											J2 · Without Calibrator
GLTV7	F	N	Xm	D	P1	V2	A	Z	L	S	T1	J1 · **Complete specification**