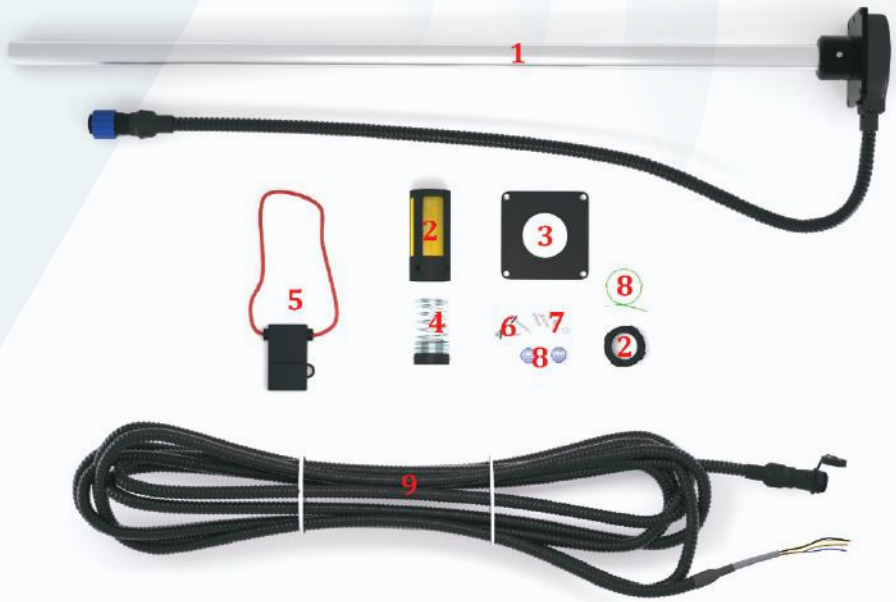
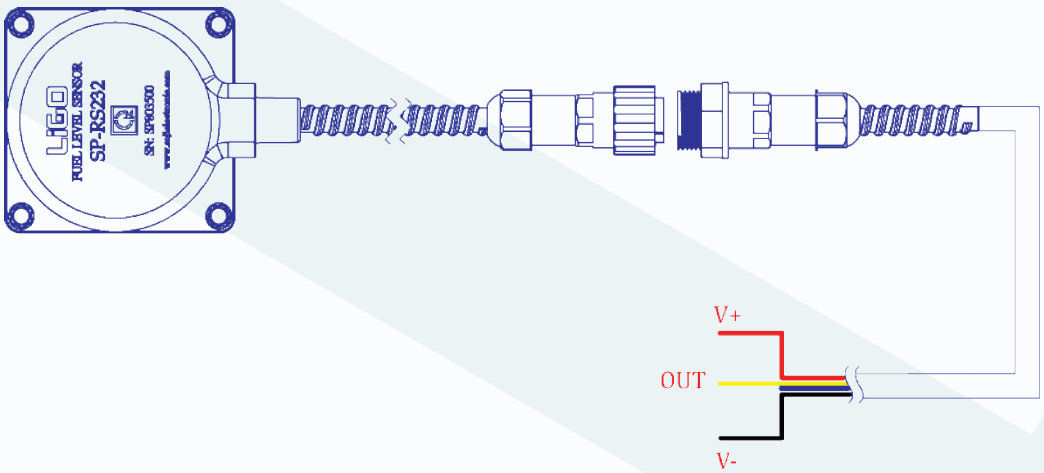
DATASHEET LIGO SP

The device is designed to measure the level of liquid fuel and other non-conductive liquids in vehicle's tanks and stationary fuel storage, applicable in different fields. The measured values will be transmitted to an external device as an output signal such as : Analog, Frequency, RS232, RS485... in order to connect to an external device.

Under particular conditions, the device can reach a high accuracy up to 99.5%. At present, on the market there are several lines of sensor used to measure fuel level, possessing different technologies such as: magnetically operated switches (reed switches), ultrasound wave (ultrasonic sensor), capacitive sensing (capacitive sensor). Among these ones, capacitive sensing technology is considered to have highest accuracy and best device lifespan.



SCHEME



WIRE COLOUR		DESCRIPION
	BLACK	GND (Ground) (V-)
	YELLOW	Out (Analog/Frequency)
	RED	15 - 37VDC or 75-7.5V for **SP PRO series**

DATSHEET

Standard length (L),mm	700, 1000, 1500...up to 6000 mm
Measuring error, %	±0.5%
Output signal	RS232
Baud rate, bit/sec	2400 ,4800 ,9600 ,19200 ,38400 ,57600 ,115200
Power supply	12-37
Max power consumption	20 mA
Waterproof standard	IP67
Operating temperature	-40 °C +85 °C
Max allowed humidity level	100%
Resolution	12 bit
Average sampling period	0s to 255s
Message interval	1s to 60s
Average service life	8 years

FEATURES KEY

1. High accuracy up to 99.5%

2. Wide operating voltage range (only applicable to LIGO-SP-PRO with the voltage from 7.5 to 75V).

3. Inside isolation voltage up to 2500V (only applicable to LIGO-SP-PRO).

4. Can be optionally cut off or prolonged up to 6000mm.

5. Automatic recognition for new length after being cut.

6. Wide operating temperature range from -40 °C to +85 °C.

7. A filter protecting the probe from dregs and water.

8. IP67 waterproof standard.

9. Interference filter and thermal error compensation system.

10. Installationand configuration software... on PC though a Connection Device.

11. Quick installation, security seal.