

Sigfox Precision Fuel Level Sensor



Smart Transportation, Smart Agriculture, Smart Building, Smart Energy, Smart Facility, Smart Factory, Smart Farm

SKU: WSSFC-CAP10

OBSOLETE, replaced by

☒ Safe Zone

☐ Hazardous Zones

SIGFOX PRECISION FUEL LEVEL SENSOR WSSFC-CAP10



WSSFC-CAP10-H1.JPG



WSSFC-CAP10 is a Sigfox-ready fuel level sensor that utilizes the 10-year experience of Daviteq in digital capacitance measuring technique. It delivers high accuracy and stability with 0.1% of span. Ultra-low power design and smart firmware allow the complete Wireless and Sensor package to run on 2 x AA battery 1.5V for 2-5 years with 15-minute updates. It can support all RC regions. Typical Applications: Monitoring fuel level and fuel consumption in fuel tanks of Genset, Boiler, Heavy equipment or machinery...

Applications

Energy Monitoring, Fuel Monitoring, Process Monitoring, Smart Irrigation, Vehicle Tracking

Notes For Applications

- Monitoring fuel level and fuel consumption in fuel tanks of Genset, Boiler, Heavy equipment or machinery...
- Fuel management for Building, Factory, Construction Site, Remote Sites, BTS Tower...
- Applicable for many kinds of fluids: diesel, bio-diesel, vegetable oil, or any low viscosity non-conductive liquids
- NOT be used with other flammable fluid such as Gasoline, Alcohol, Ethanol, Acetone, Toluene or other solvents.

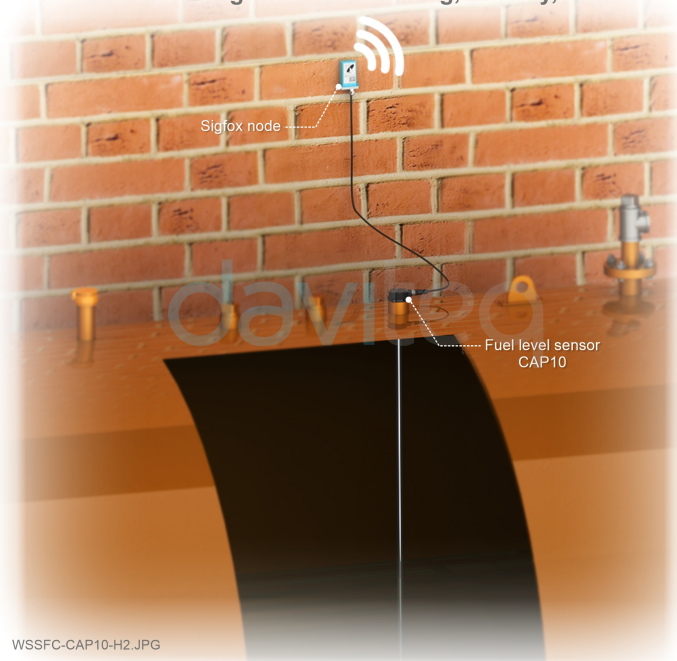
☒ **Sigfox Ready**
Device are best operating performance on the SIGFOX network

☒ **5-Year battery**
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can operated up to 5 years with 02 x AA batteries

☒ **High Precision 0.1%**
High accuracy capacitance measuring technique from Daviteq

☒ **Multiple fluids measurement**
Diesel, bio-diesel, vegetable oil, or any low viscosity non-conductive liquids

Fuel management for Building, Factory,...



WSSFC-CAP10-H2.JPG

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Created date: Dec-21-2022

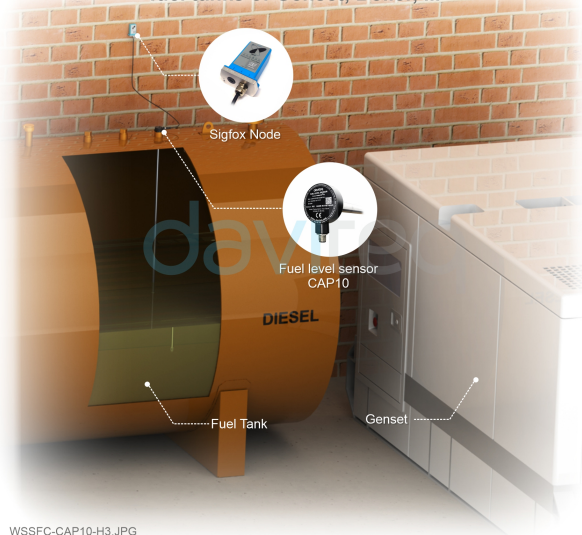
Updated date: Aug-29-2024

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Specification

SENSOR PROBE	
Measurement fluids	Diesel (Standard), please contact us for Bio-Diesel, Vegetable Oil, or Non-conductive and low-viscosity fluid etc.
Measurement Range (mm)	Standard Range: 700, 1000, 1500, can be extended up to 3000
Accuracy/ Resolution/ Repeatability	±0.1% of Span/ 0.1%/ ±0.1% of span
Thermal drift	< +0.03% of span per 10°C
Connector	M12 male, 4-pin, Coding A
Sensor MTBF	More than 10 years
Sensor wetted materials	Aluminum and engineering plastic
Operating Temperature Range	-20 to 85°C
Operating Humidity Range	0-100% RH
Sensor rating	IP67, outdoor
Certification	CE-Marking per EN61236-1 (with test report)
Standard accessories	Filter footer, flange, gasket, o-ring, self-tapping screws
COMMUNICATION	
Sigfox zones	support RC1-RC2-RC3c-RC4-RC5-RC6
Antenna	Internal Antenna 2.0 dbi
Configuration	via Downlink or offline USB cable (PC software is supplied at free)
Battery	02 x AA Type 1.5VDC
Sensor cable	2m sensor cable with M12-male connector
RF Module complies to	CE, FCC, ARIB
Working temperature	-40~60°C (using Energizer® Lithium Ultimate AA battery)
Dimensions and Net-weight	H140xW73xD42, 250g (Sigfox Device only)
Housing	Polycarbonate, IP67
Mounting	Wall mount bracket

Monitoring fuel level and fuel consumption in fuel tanks of Genset, Boiler, ...



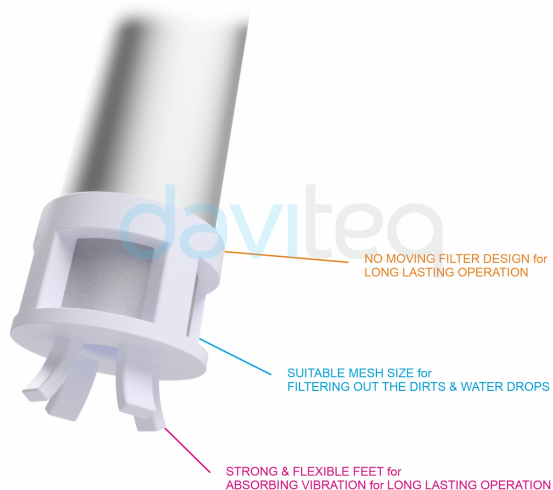
WSSFC-CAP10-H3.JPG

SYSTEM ARCHITECTURE



WSSFC-CAP10-H4.JPG

Smart filtered footer for stable measuring

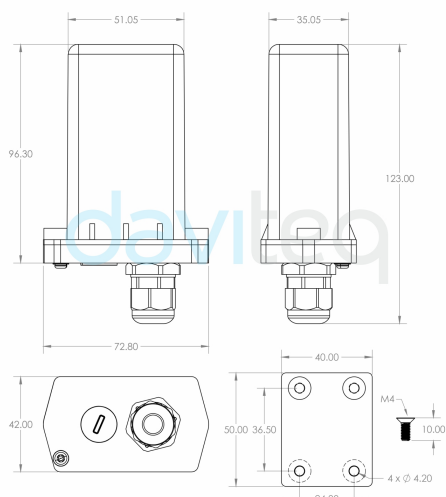


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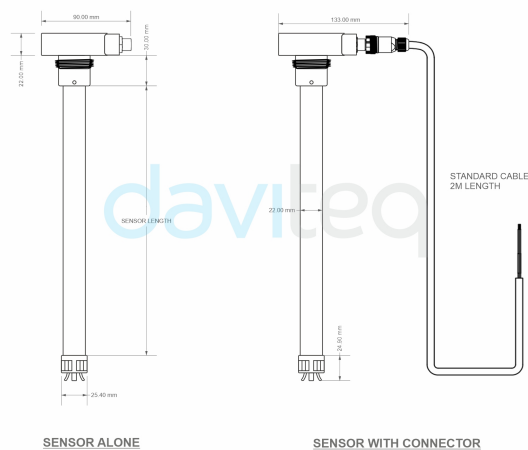
PulseCAP10 Package includes



WSSFC-CAP10-H6.JPG

DIMENSION DRAWING OF WIRELESS NODE
(Unit: mm)

WSSFC-CAP10-H7.JPG

DIMENSION DRAWING OF FUEL SENSOR
(Unit: mm)

WSSFC-CAP10-H8.JPG

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Ordering Information

ITEM CODE	DESCRIPTIONS
WSSFC-CAP10-1500	SIGFOX HIGH PRECISION CAPACITANCE FUEL LEVEL SENSOR FOR DIESEL OIL, VEGETABLE OIL, LUBRICANT, 1500MM, FIELD CUTTABLE, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, for All RC ZONES
TTL-LRW-USB-01	CONFIGURATION CABLE FOR LORAWAN OR SIGFOX SENSOR, TTL, USB
CAP10PROEXT0700	CAP10 PROBE EXTENSION LENGTH 700 MM
CAP10PROEXT1000	CAP10 PROBE EXTENSION LENGTH 1000 MM
CAP10PROEXT1500	CAP10 PROBE EXTENSION LENGTH 1500 MM

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