Sigfox Precision Fuel Level Sensor WSSFC-CAP10

SKU: WSSFC-CAP10

Doc No: WSSFC-CAP10-DS-EN-10

Introduction

WSSFC-CAP10 is a Sigfox 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 minutes updates. It can support the following regions RC1, RC2, & RC4.

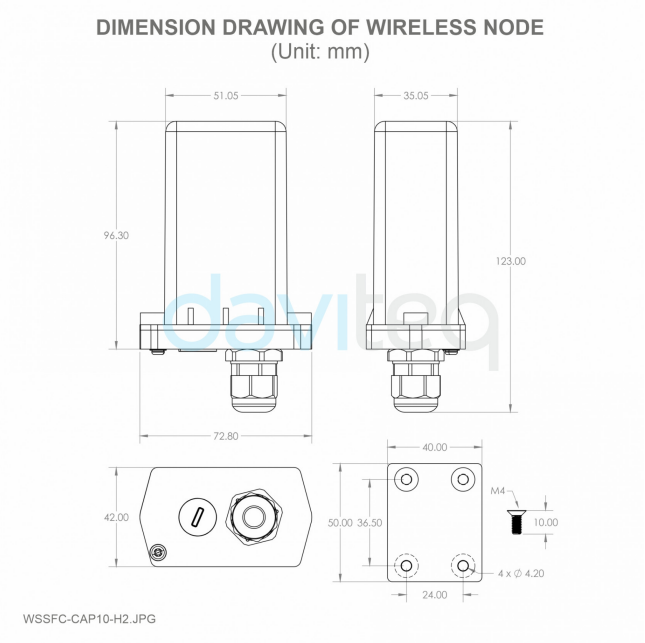
- Monitoring fuel level and fuel consumption in fuel tanks of Genset, Boiler, Heavy equipment or machinery...
- Fuel management for Building, Factory, Construction Site, Remote Sites, BTS Tower...
- Applicable for many kinds of fluids: diesel, bio-diesel, vegetable oil, or any low viscosity non-conductive liquids

Highlight Features

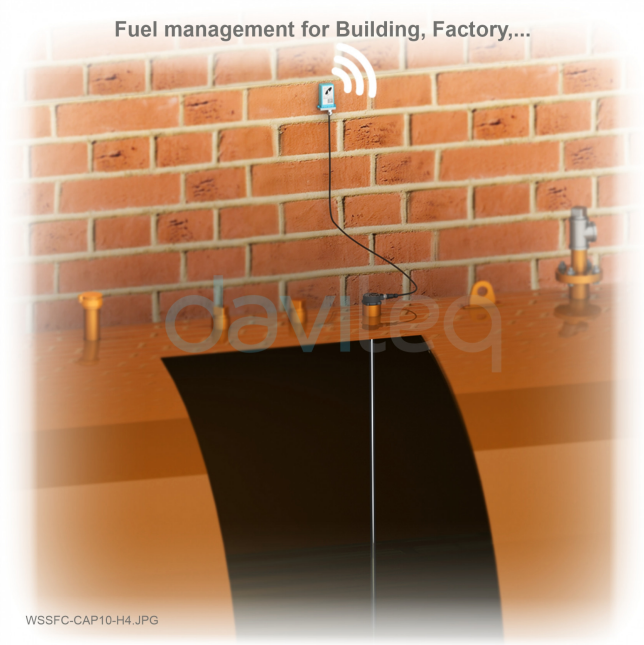
- **High accuracy & stability**
  Thanks to Daviteq's digital capacitance measuring technique;
- Field-cuttable;
- Field-extendable;
- Sigfox Ready;
- 2-5 years battery life with 15 minutes updates;
- Plug & Play.

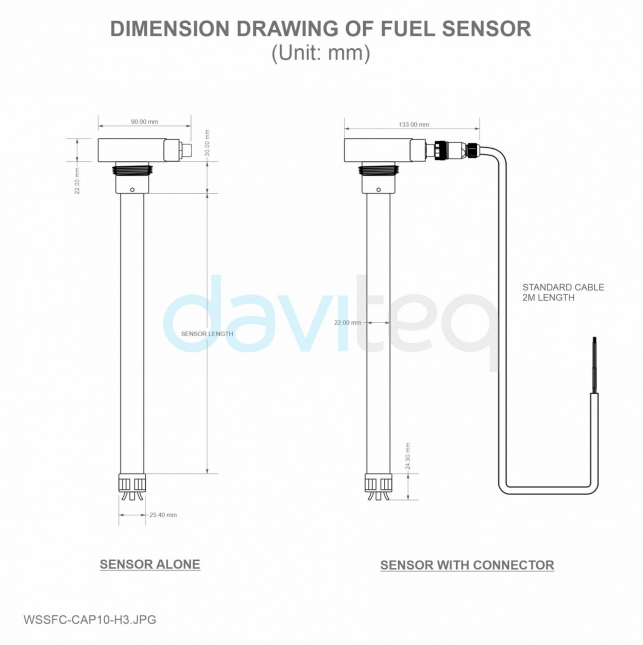


WSSFC-CAP10-H1.JPG



WSSFC-CAP10-H2.JPG





Specification

SENSOR SPECIFICATION	
Measurement Range (mm)	Standard Range: 700, 1000, 1500, can be extended up to 4000
Accuracy	+/- 0.1% of Span
Resolution	0.1%
Repeatability	+/- 0.1% of span
Thermal drift	< + 0.03% of span per 10oC
Connector	M12 male, 4-pin, Coding A
Sensor MTBF	More than 10 years
Sensor wetted materials	Aluminum and engineering plastic
Operating Temperature Range	-40 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
SIGFOX SPECIFICATION	
Sigfox zones	select RC1-RC2-RC4
Antenna	Internal Antenna 2 dbi
Configuration	via Downlink or offline USB cable (PC software is supplied at free)
Battery	02 x AA Type 1.5VDC

RF Module complies to	CE, FCC, ARIB
Working temperature	-40°C..+60°C (using Energizer Lithium Ultimate AA battery)
Dimensions	H140xW73xD42
Net-weight	250 grams (Sigfox Device only)
Housing	Polycarbonate, IP67
Mounting	Wall mount bracket
Sensor cable	2m sensor cable with M12-male connector

Ordering Code

Item code	**Descriptions**
WSSFC-CAP10-8-1500	SIGFOX HIGH PRECISION CAPACITANCE FUEL LEVEL SENSOR FOR DIESEL OIL, VEGETABLE OIL, LUBRICANT, 1500MM, FIELD CUTTABLE, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC1 ZONE
WSSFC-CAP10-9-1500	SIGFOX HIGH PRECISION CAPACITANCE FUEL LEVEL SENSOR FOR DIESEL OIL, VEGETABLE OIL, LUBRICANT, 1500MM, FIELD CUTTABLE, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP67, RC2-RC4 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

⚠ Link for full datasheet: https://filerun.daviteq.com/wl/?id=o1vv4n5tnZBoViW8pVcwXH6Iko41lPwY

⚠ Link for manual:

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