PulseCAP®10

Smart Fuel Level Sensor

VER 3.0

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FUEL LEVEL SENSOR
Model: **PulseCAP®10**

Dai Viet Controls & Instrumentation Co.,Ltd - No.11 Street 2G, Nam Hung Vuong Res, An Lac Ward, Binh Tan Dist., HCMC, VN - warranty void if this label was removed

R
A P F S
- 201
S/N
Version: 3. **MADE IN VIETNAM**
Power Consumption: max 15mA
Voltage: 8..50VDC

C E

w w w. d a v i t e q . c o m

Q.C. PASSED 1K

Easy Installation

Cuttable at Site

High Stability

99.5%

High Accuracy

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Highlight Features

▶ **Easy Installation**
Intelligent structure with full accessories for easy installation at site

▶ **Smart firmware (*)**
Smart firmware allows cutting the sensor from 1000 mm down to 200 mm

▶ **High Stability Output**
Even on rough terrain
Even in temperature shocks

▶ **High Linearity Output**
Using digital capacitance measurement technology to achieve highest linearity with lowest temperature drift
Measuring value is filtered by firmware for stable and accuracy result

▶ **Highest Protection**
Highest protection with lead sealing

▶ **Many output types**
Frequency, Pulse, Analog, Serial/RS232, Modbus/RS485

▶ **For other applications**
Fuel tank for Generators, Ships, Vehicles...
Fuel tank in Industrial Plants...

▶ **Fluids**
Diesel oil, Fuel oil, Lubricant, Vegetables oil...

▶ **Calibrated by QUATEST3** (option)

(*) *Customer only needs to stock one size of sensor. After cutting, the sensor will automatically recognize it's new length. Need NOT to use special device for recalibration.*

EMC Certification

Trending Graph

Actual graph of Fuel Level/Volume trending (from a customer using PulseCAP10)
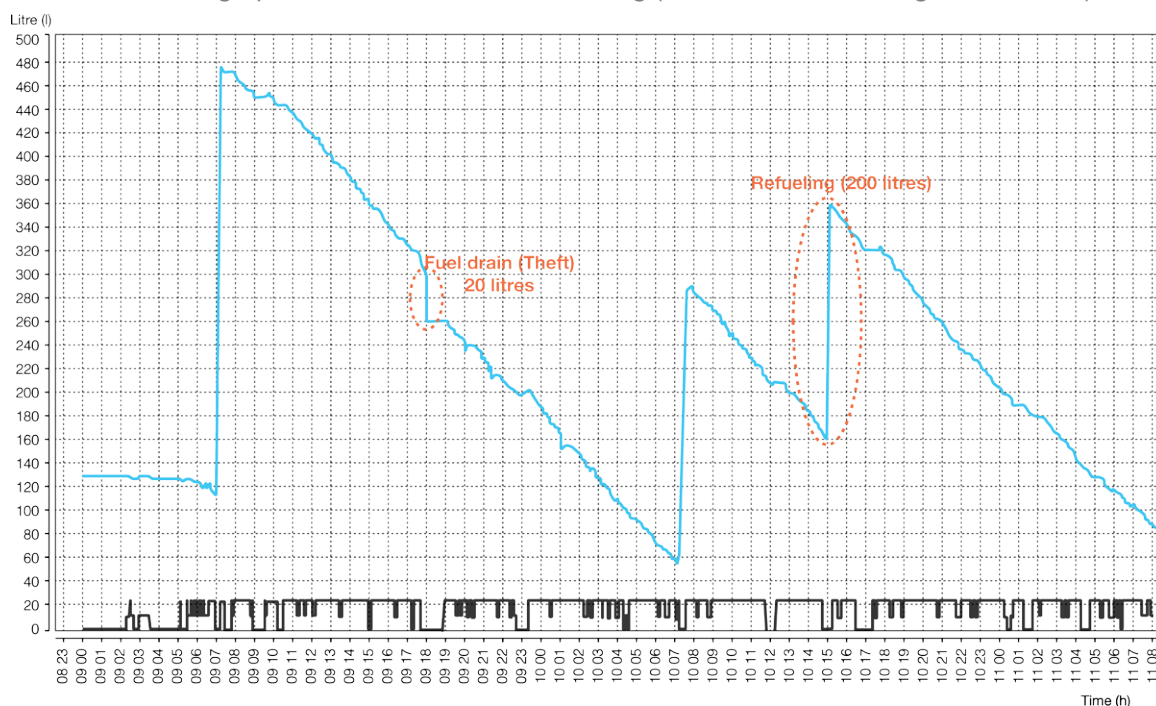
Truck registered no.61R-XXXX from date 09/04/2013 to 11/04/2013

Specification

SENSOR LENGTH	Standard Length: 700, 1000, 1200, 1500, 2000, 2500, 3000, 3500 mm
OUTPUT	Frequency : 50 .. 1050 Hz, 5 Vp-p Pulse Width : 1.7 sec cycle, 5 Vp-p Analog : 1.00 .. 5.00 Vdc RS232 : Tx, DS Protocol, 5 Vp-p RS485 : Modbus RTU
POWER SUPPLY	8..50VDC for output: analog, pulse, frequency and RS232 5..50VDC for output: Modbus RS485 Current Consumption: max 15mA
PRESSURE/TEMPERATURE	Vaccuum .. 2 barg / -40°C .. +85°C
PERFORMANCE	Output Linearity : +/- 0.5% of Span (at 25°C) Temperature drift : < + 0.03% of Span per 10°C
RESOLUTION	1/1000 of span
SENSOR MATERIALS	Cast Aluminum, Thermal plastic
ELECTRICAL CONNECTOR	3-way connector, IP67 with 7m PVC cable, 3-core
HOUSING / RATING	Cast Aluminum / IP67
PROCESS CONNECTION	4-bolt Flange
ACCESSORIES	4-bolt Flange, Rubber Gasket 5mm, Rubber Gasket 2mm, Flange seal cover, M4 hex bolt Connector cable with M12 connetor (order separately)
CERTIFICATE	CE-Marking; Standard: EN61236-1

VIETMAP®   VIETTEL   VCOMSAT   SaigonTrack   VIETGLOBAL   HỮU TOÀN

PulseCAP®10

Package Includes

(*)Sensor PulseCAP10 with male connector

Cable with female connector

Corrugated hose (option)

Connector seal

Sensor head seal

1 x Buna-N gasket (2mm)

04 x Aluminum rivet 4x24mm

1 x 4-bolt threaded flange

1 x Buna-N gasket (5mm)
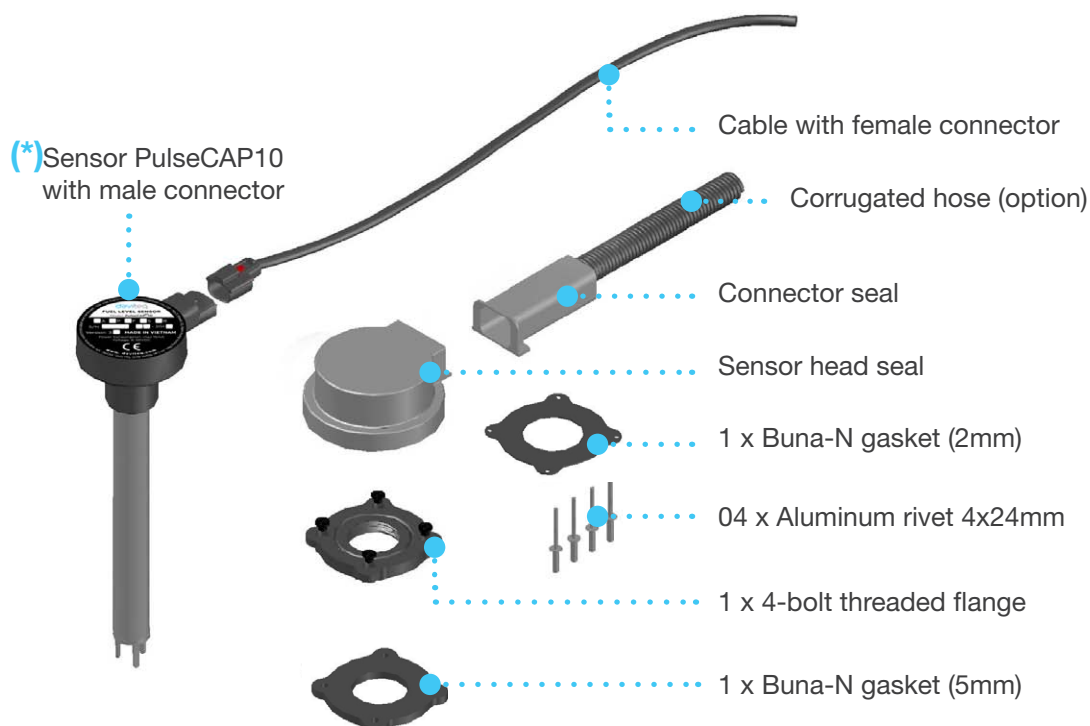
(*)CW Signal cable (7m standard) with female connector, other end is fly leads with labels

Dimensions

60.5

Dia. 65

22

Deadzone = 18

Vent

Sensor length L

Plastic footer

Offset = 20

1

8
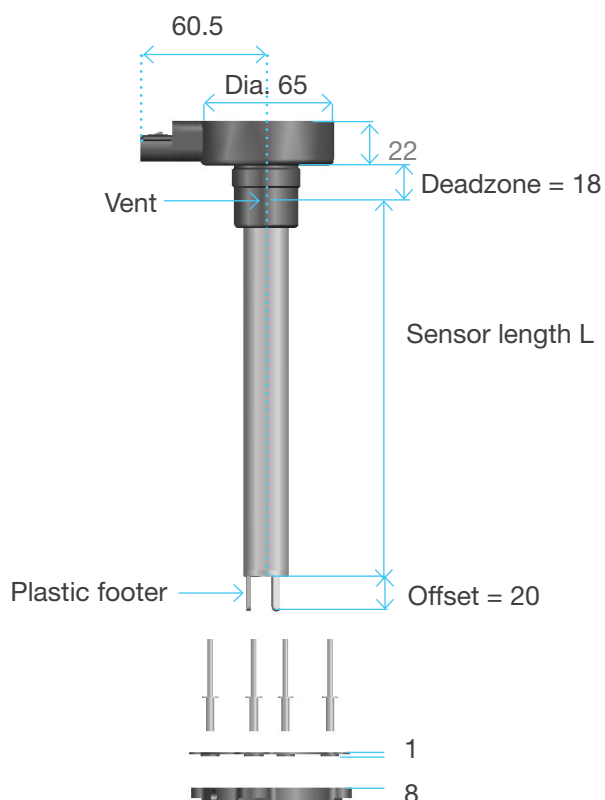
Standard Connector

Unit: mm

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Ordering Code

1. Select sensor Type	**CAP10**	PulseCAP10 Fuel Level Sensor for Vehicles
	CAP10CN	PulseCAP10 Fuel Level Sensor for Stationary Equipments
2. Select Output Type	**A**	Analog output 1..5VDC
	P	Pulse width modulation output
	F	Frequency output
	S	Serial RS232 output
	R	Modbus RS485 communication (M12 connector)
3. Select Length	**700 .. 3500**	700, 1000, 1200, 1500, 2000, 2500, 3000, 3500mm
4. Select Full set	**FULL** [1]	Full set of accessories (for CAP10 only) 1 x Flange - CAP10INSUFLANGE 1 x Soft Parts Kit - CAP10PARTSKIT 1 x Cable 7m - CAP10CABLE7M 1 x Seal - CAP10V3SEAL
	__	No accessories (sensor only)

▶ **Example:** Selected Model CAP10A700FULL
Full set of PulseCAP10 Fuel level sensor, Analog Output, 700mm length for Vehicles

[1] *Not applicate for output type R*

Accessories

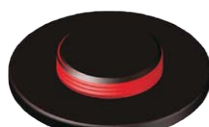|	
CAP10INSUFLANGE	4-bolt Flange for PulseCAP10
CAP10PARTSKIT	Soft Parts Kit for PulseCAP10
CAP10CABLE7M	7m Cable Set with Female Connector for PulseCAP10
CAP10CABLE14M	14m Cable Set with Female Connector for PulseCAP10
CAP10CABLE21M	21m Cable Set with Female Connector for PulseCAP10
CAP10BLINDCAP	Blind cap for removing sensor for maintenance
CAP10CABLEM12 [2]	5m Cable set with M12 female connetor for PulseCAP10
CAP10V3SEAL	Seals for sensor head and connector

[2] *Applicable for output type R only*

Soft Parts Kit
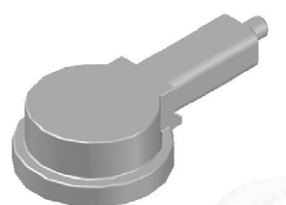
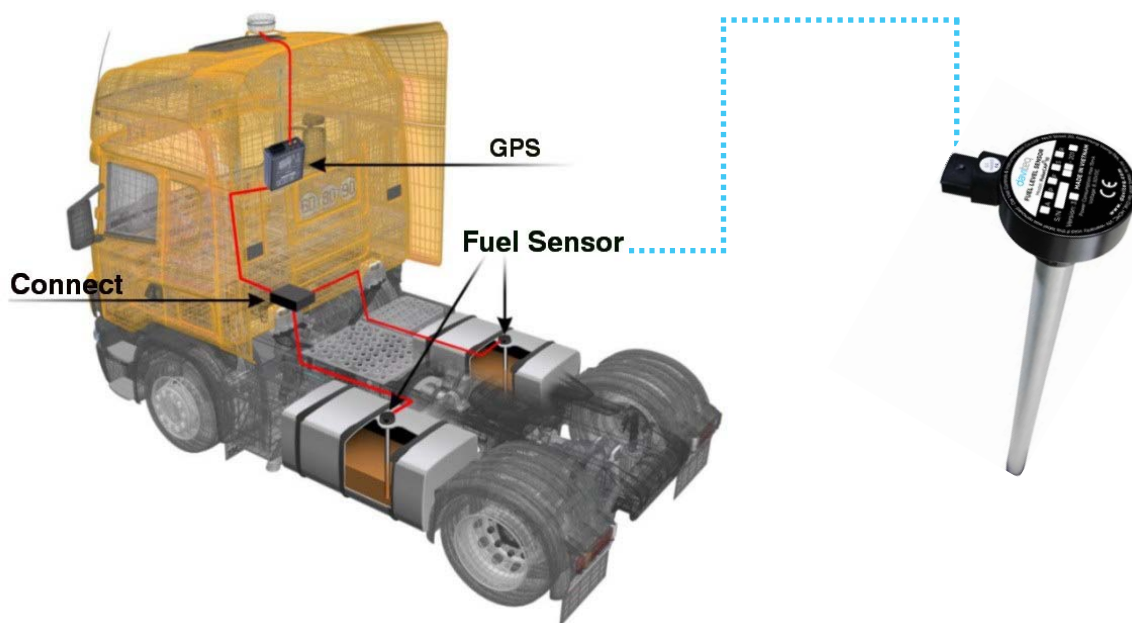Seals for sensor head and connector

4-bolt Flange

Blind cap

M12 Connector Cable

Cable 7m/14m/21m

PulseCAP®10

Applications

▶ Vehicles

GPS

Fuel Sensor

Connect

▶ Stationary Equipments

Relay 1

Relay 2

4-20 ma

RS485/Modbus

LFC 128
(refer to brochure of LFC128)

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