FUEL LEVEL SENSOR RESISTIVE OUTPUT FOR GENSET

daviteq

SKU: CAP10G

CAP10G-H1.PNG

CAP10G is the industrial version of PulseCAP10, designed specifically for generator fuel monitoring applications. The CAP10 has 240..33 ohms resistor output allowing direct connection to a generator controller. It is compatible with most popular generator controllers on the market such as DEEPSEA, EMKO, DATAKOM, COM AP, MGS, SMART GEN, WOODWARD, POWERCOMMAND ... CAP10G with high precision up to 0.5%. Measuring range from 100mm - 3500mm. The sensor has CE EMC certification according to EN61236-1 standard.

✓ **DIRECT CONNECTION WITH GENERATOR**
Compatible with most popular generator controllers on the market such as DEEPSEA, EMKO, DATAKOM, COM AP, MGS, SMART GEN, WOODWARD, POWERCOMMAND ...

✓ **99.5% ACCURACY**
Patented digital capacitance measuring technique PulseCAP10 of Daviteq allow high accuracy

✓ **HIGH STABILITY**
Patented digital capacitance measuring technique PulseCAP10 of Daviteq combined with intelligent sensor structure design for high stability signal
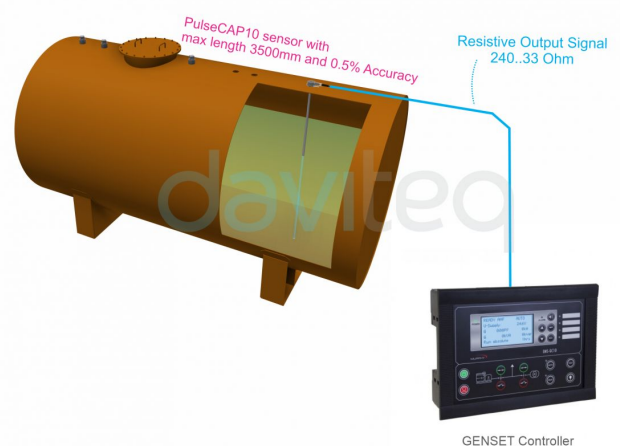
✓ **NO NEED CALIBRATION AFTER CUTTING**
Smart Firmware allow automatically recognize its new length after cutting. No need complicated calibration steps!!!

✓ **EASY INSTALLATION**
Smart design for easy installation and complete protection of sensor from tampering

CAP10G-H2.PNG

SPECIFICATION

Sensor length	Standard 700mm, 1000mm, optional 1200 or 1500mm. Cuttable down to 200mm. Longer than 1500mm, suggest to use Industrial type sensor CAP10CN
Output	240..33 ohms
Power supply	8..50VDC
Consumption	max 20mA
Working pressure	-1 .. 2 barg
Working temperature	-40 oC .. + 85 oC
Accuracy	+/- 0.5% of span (at 25 oC)
Temperature drift	< + 0.03% of span per 10oC
Resolution	1/1000 of span
Sensor materials	Alloy & Engineering plastic
Electrical connection	3-way connector IP67 from MOLEX with 3m shielded cable as standard
Housing	Cast alumium, IP67 protection
Process connection	Plastic flange
Standard accessories	flange, o-ring, gasket, protection covers, self-tapping screws, twisted seal, fuse & fuse holder
Certification	CE-Marking per EN61236-1 (with test report)

CAP10G on STATIONARY TANK connect with GENSET and Globiots Platform

Internet connection via GPRS/3G/NB-IOT

globiots
by daviteq

iConnector Smart IoT Gateway

CAP10G sensor with max length 3500mm and 0.5% Accuracy

RS485 output modbus RTU

GENSET Controller

Resistive Output Signal 240..33 Ohm
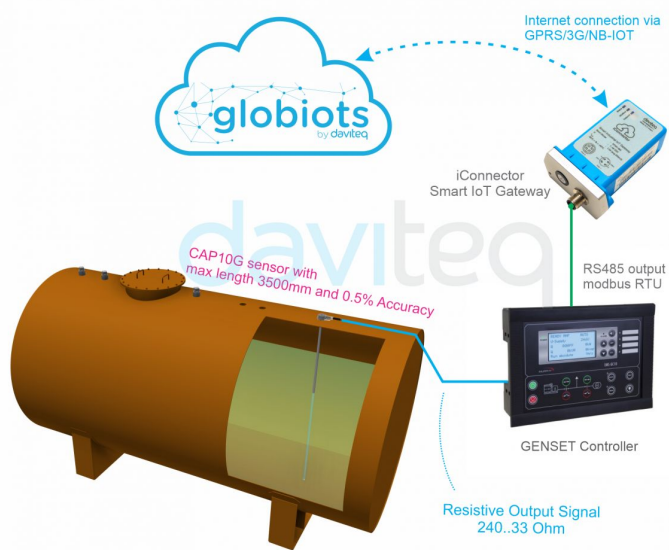
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Using for many controllers SMARTGEN, DEEP SEA, EMKO, ...

CAP10G

SMARTGEN   DEEPSEA

Resistive Output

EMKO   WOODWARD

CAP10G-H4.PNG

SMART FILTERED FOOTER for STABLE MEASURING

NO MOVING FILTER DESIGN for LONG LASTING OPERATION

SUITABLE MESH SIZE for FILTERING OUT THE DIRTS & WATER DROPS

STRONG & FLEXIBLE FEET for ABSORBING VIBRATION for LONG LASTING OPERATION
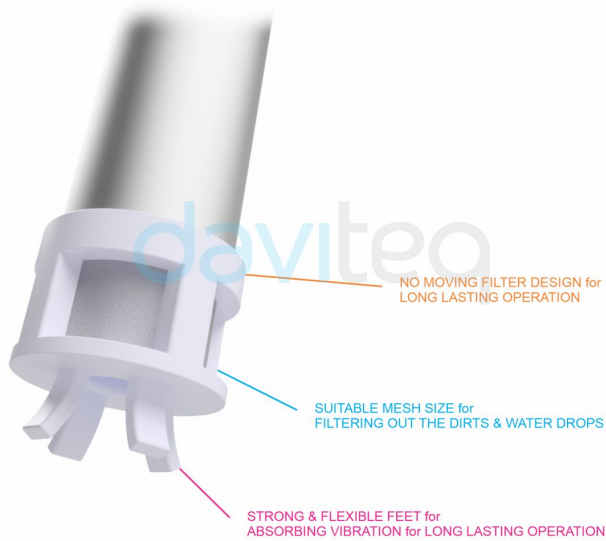
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PulseCAP10G Package includes

Sensor

Rubber gasket

O-ring

PA6630GFR flange

User guide

5 x Self-tapping Screws

1A Fuse

Inline FUSE holder

Poly-carbonate connector cover

Poly-carbonate Sensor cover

Stainless steel wire for sealing

MOLEX female connector with 7m cable

Twist plastic seal
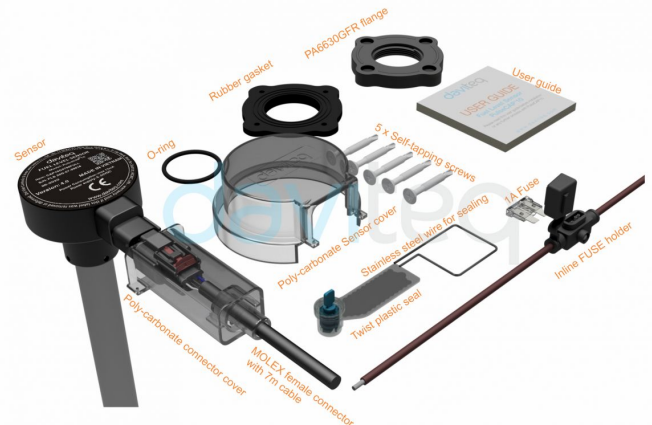
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WIRING FOR CAP10G WITH RESISTIVE OUTPUT

Wiring Diagram

PWR
OUT
GND

MCU R

Output characteristic
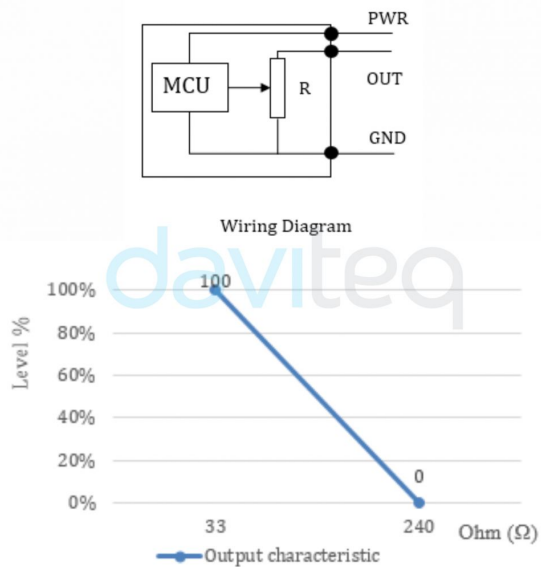
CAP10G-H7.PNG

PulseCAP10G DIMENSION DRAWINGS
(Unit: mm)

93.00

30.00

22.00

SENSOR LENGTH

25.40

SENSOR ALONE

36.00

160.00

22.00

24.90

STANDARD CABLE 7M LENGTH

SENSOR WITH CONNECTOR AND PROTECTION COVERS
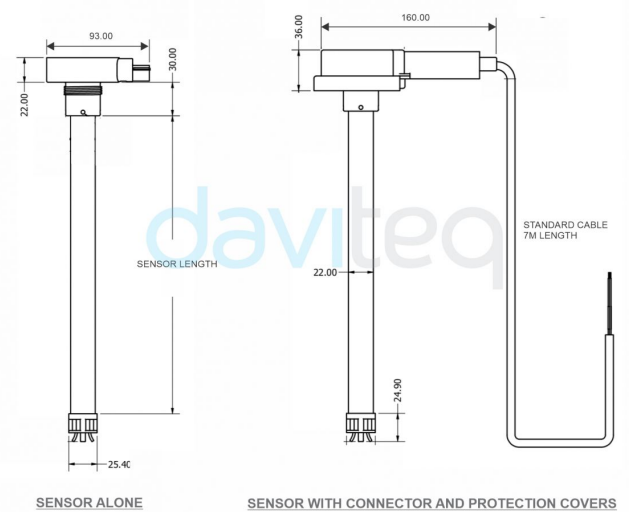
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ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
CAP10G0700FULL	CAP10G Heavy Duty Fuel Level Sensor for GENSET, 700mm, resistive output 240..33 OHM, 0.5% accuracy, 1/500 resolution, full accessories with 3m cable
CAP10G1000FULL	CAP10G Heavy Duty Fuel Level Sensor for GENSET, 1000mm, resistive output 240..33 OHM, 0.5% accuracy, 1/500 resolution, full accessories with 3m cable
CAP10G1200FULL	CAP10G Heavy Duty Fuel Level Sensor for GENSET, 1200mm, resistive output 240..33 OHM, 0.5% accuracy, 1/500 resolution, full accessories with 3m cable
CAP10G1500FULL	CAP10G Heavy Duty Fuel Level Sensor for GENSET, 1500mm, resistive output 240..33 OHM, 0.5% accuracy, 1/500 resolution, full accessories with 3m cable
CAP10PROEXT0700	Extension Probe for CAP10, L=700mm
CAP10PROEXT1000	Extension Probe for CAP10, L=1000mm
CAP10PROEXT1500	Extension Probe for CAP10, L=1500mm
ACCESSORIES	
CAP10PROTECTSET	CAP10 protection cover set
CAP10PARTSKIT	CAP10 parts kit
CAP10INSUFLANGE	CAP10 plastic flange
CAP10HOUSCOVER	CAP10 housing protection cover
CAP10CNTCOVER	CAP10 connector protection cover
CAP10FOOTER-001	CAP10 filtered footer
CM-CAP10LOWERGASKET2	CAP10 rubber gasket
CAP10BLINDCAP	CAP10 blind cap