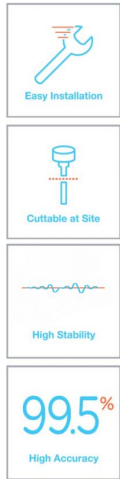# FUEL LEVEL SENSOR FOR INDUSTRIAL APPLICATIONS

daviteq

SKU: CAP10CN

SMART FUEL LEVEL SENSOR
PulseCAP10 4-20mA Output

CAP10CN-H1.PNG

CAP10CN is industrial version of PulseCAP10, designed for industrial applications like generator, stationary fule tank in factory, building, construction site...CAP10CN has 4-20mA output or RS485/ModbusRTU output, can be connected easily to any industrial devices like PLC, IoT Gateway, iConnector... CAP10CN has very high accuracy 0.1% of span, can be used for tank up to 30.000 liters volume.

✓ **99.9% ACCURACY**
Patented digital capacitance measuring technique PulseCAP10 of Daviteq allow high accuracy

✓ **EASY CALIBRATION**
Easy calibration for any fluid by just a button

✓ **INDUSTRIAL OUTPUT SIGNALS**
Output 4-20mA or RS485/modbusRTU for easy connecting to PLC, controller, SCADA, BMS…

✓ **SHORTEN TO 100MM ONLY!**
Allow to cut as short as 100mm length

✓ **EXTEND UP TO 4000MM**
Easy extend to 4000 mm by adding extension probes

SMART FUEL LEVEL SENSOR
PulseCAP10 RS485
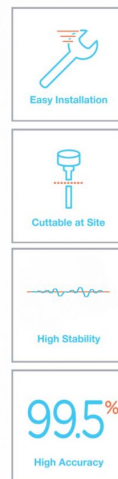
CAP10CN-H2.PNG

SPECIFICATION

Sensor length	standard 1500mm, extend to 4000mm (by extension probe) or cut down to 100mm
Output	4-20mA output (with 250 ohms precision resistor), or RS485/ModbusRTU
Power supply	8..50VDC
Consumption	max 35mA
Working pressure	-1 .. 2 barg
Working temperature	-40 oC .. + 85 oC
Accuracy	+/- 0.1% 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	connector M12 (matched connector and cable must be ordered seperately)
Housing	Cast alumium, IP67 protection
Process connection	Plastic flange
Standard accessories	flange, o-ring, gasket, protection covers, self-tapping screws, twisted seal
Certification	CE-Marking per EN61236-1 (with test report)

PulseCAP10 on STATIONARY TANK

CAP10CN-H3.PNG
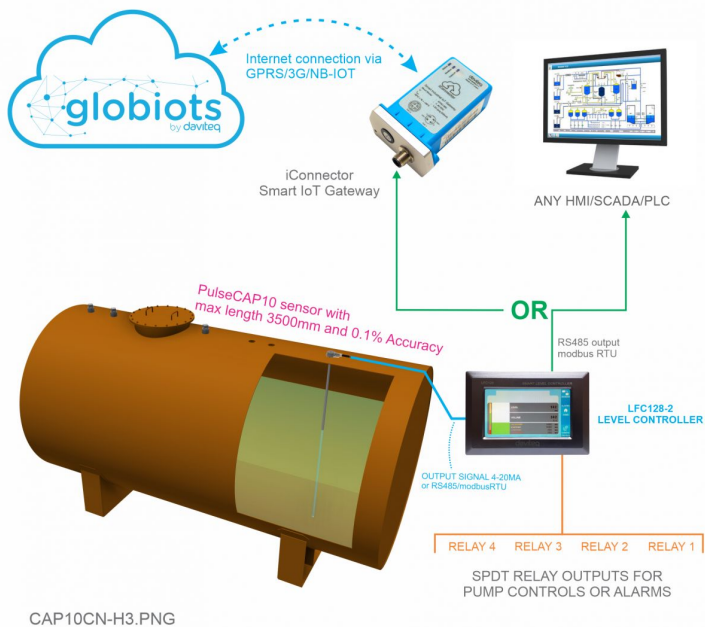
CONNECT TO WIRELESS BRIDGE SIMPLY REPLACE RS485 CABLE

CAP10CN-H4.PNG

Connect with any PLC, HMI or IOT PLATFORM

ANY IoT Platform

Any IoT Gateway

CAP10CNR

RS485/ModbusRTU

HMI

PLC

CAP10CN-H5.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
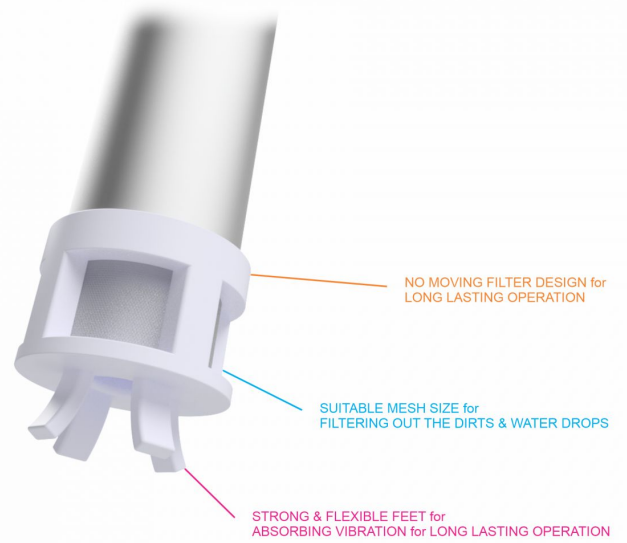
CAP10CN-H6.PNG

PulseCAP10 Package includes

PA6630GFR flange

Rubber gasket

User guide

USER GUIDE

O-ring

5 x Self-tapping screws

Sensor

Poly-carbonate Sensor cover

M12 Connector
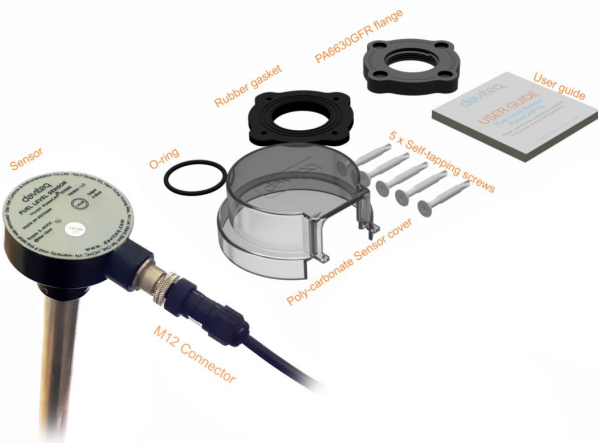
CAP10CN-H7.PNG

PulseCAP10 DIMENSION DRAWINGS

90.00 mm

133.00 mm

22.00 mm

30.00 mm

STANDARD CABLE
2M LENGTH

22.00 mm

SENSOR LENGTH

24.00 mm

25.40 mm

SENSOR ALONE

SENSOR WITH CONNECTOR
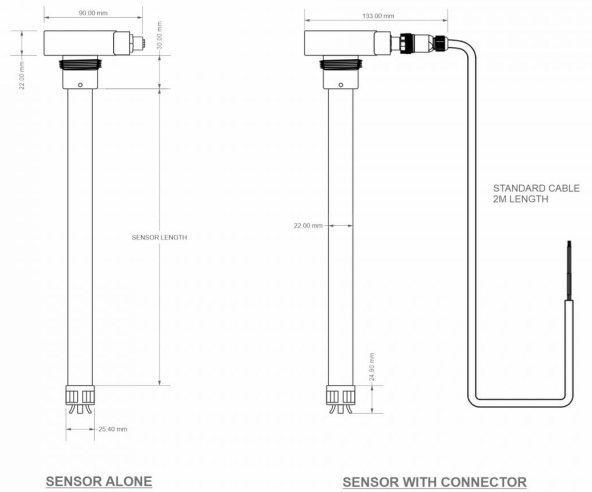
CAP10CN-H8.PNG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
CAP10CNC1500F	Fuel Level Sensor PulseCAP10CN, M12-Female connector, calibration by button and LED signal indicator, extension up to 4000mm, factory calibrated by standard Diesel, L = 1500mm, output 4-20mA, with accessories, no cables, for industrial applications
CAP10CNR1500F	Fuel Level Sensor PulseCAP10CN, M12-Male connector, calibration by Modbus tool on PC, extension up to 4000mm, factory calibrated by standard Diesel, L = 1500mm, output RS485/ModbusRTU, with accessories, no cables, for industrial applications
CAP10EXT0500	Extension Probe for CAP10, L=500mm
CAP10EXT1000	Extension Probe for CAP10, L=1000mm
CAP10EXT1500	Extension Probe for CAP10, L=1500mm
ACCESSORIES	
2M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=2m, Rohs, Shield 80%
2M-FM12CAB4x0.25	M12 4pin Female assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=2m, Rohs, Shield 80%
5M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=5m, Rohs, Shield 80%
5M-FM12CAB4x0.25	M12 4pin Female assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=5m, Rohs, Shield 80%
10M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=10m, Rohs, Shield 80%
10M-FM12CAB4x0.25	M12 4pin Female assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm2, L=10m, Rohs, Shield 80%
RS485-FM12-USB-1	RS485/USB multi-purpose Configuration cable with connector m12 male, female and flying leads, with Power adapter 12VDC/2.0A
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