INFORMATION IS POWER CAN Bus IntelliSensor®

Precisely and reliably track your fuel with maximatecc's CAN Bus IntelliSensor[®]. The IntelliSensor has no float arm or moving parts, ensuring that you always get accurate fuel measurement readings.

Unique to our design is the auto-calibration pin, which measures the capacitance of many different hydrocarbon-based mediums, including diesel, gas, jet fuel, hydraulic fluids and engine oil.



Configuration tool

Our configuration tool allows for quick and easy selection of CAN source addresses, baud rate, PGN identifiers and SPN parameters. You also can set the auto-calibration feature with the configuration tool so the IntelliSensor immediately measures your fuel's dielectric reading and gives you an accurate level.

The configuration tool can be set to communicate diagnostic trouble codes, including calibration or fuel level errors. For vehicles with uniquely shaped tanks, use the configuration tool to program the volumetric profile.

maximatecc



IntelliSensor: MODERN ELECTRONIC FUEL LEVEL SENSOR

Ideal for harsh terrain

With one solid, sealed system, no contaminants can corrupt the IntelliSensor's electronics. This fuel sensor is corrosion proof, has a -40 to 85° C operating range and meets SAE and OEM standards for shock, salt spray and vibration. In addition, the IntelliSensor features a standard SAE five-hole flange so it can be rigidly installed in the existing tank holes.

Fuel tracking and versatile design

The IntelliSensor is CAN enabled and connects to most J1939 networks, so simply install it and begin tracking your fuel, transmitting collected diagnostic data to your electronic control module to calculate fuel usage. To change fuel measurement settings while a vehicle is in the field, just send a message to the IntelliSensor via your ECM. The IntelliSensor can be mounted at multiple angles, at up to 45 degrees. It's appropriate for all vehicle types, even those with an irregular gas tank style or shape. You also can mount multiple IntelliSensors on a vehicle.

Efficient fleet management

Using telematics to monitor and reduce fleet management costs? The IntelliSensor plays a key role in advanced data monitoring and continuous cost savings. Use it to track overall fuel consumption, or the efficiency of your operators and vehicles. The IntelliSensor can also help you document service data like running speed, engine heat, fuel reserves and peaks in fuel consumption. Using the CAN network, save your fleet data and manage it over time.

CAN BUS SERIES of SOLUTIONS

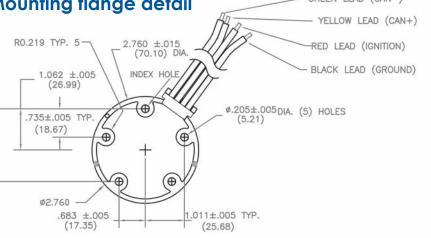
The IntelliSensor is part of our full CAN Bus portfolio of products, including the maxAl series of displays and DATCON heavy-duty industrial gauges.

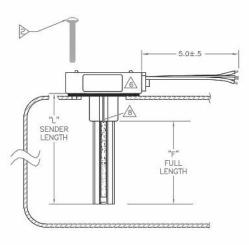


IntelliSensor PRODUCT SPECIFICATIONS

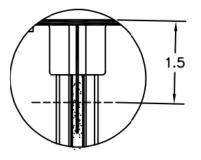
Processing	
Main processor	Micro-controller based on ARM® Cortex® - M0 32-bit
Storage	Flash memory 64KB
RAM	Micro-controller internal RAM 16KB
Interfaces	
Connection	4-wire bare lead or Deutsch DT 4-pin: yellow (CAN+), green (CAN-), black (ground), red (ignition)
CAN	1 CAN, J1939 protocol, 250 Kbps baud rate by default Configurable to 500 Kbps, 250/500 Kbps auto-detectable
PGN	65276
SPN	96
SA	Dynamic
Diagnostics	DM1 message for fuel level and calibration errors
Update rate	2 seconds
Operating voltage	9-32VDC
Electrical protection	Reverse polarity and over-voltage
Output accuracy	+/- 3% as a linear function of fuel level
Factory calibration	Set to the dielectric value of diesel #2
Auto-calibration	If the tank is full (1.5 in. or 38 mm from the bottom of the mounting flange), and fuel is within 0-50° C, the fuel will contact the sensor stud, and the IntelliSensor will auto-calibrate to the dielectric value.
Fuel types	Any hydrocarbon based liquids without water: Diesel #1, diesel #2, hydraulic, blended fuels, etc.
Software	
Application software	GUI-based configuration tool
Environment	
IP class	IP68
EMC conformity	ISO 13766-2
CE certified	Yes
SAE standard	Vibration, UV, salt spray and chemicals
Temp. range	-40 to 85° C
Installation	
Mounting flange	Glass-filled black PC/ABS, polyester
Mechanical installation	SAE five-hole flange, installs on existing tank holes. Minimum hole diamefer for installation is 1.63 in. (41.4 mm).
Mounting angle	Up to 45 degrees
Tank sealing	6 PSI
Sender tube	Trivalent aluminum chrome plated, length varies by product
Lengths (inches/cm)	Standard lengths: 6 to 36 in. (15 to 91 cm) in 0.5 in. intervals. Custom lengths available upon request.
Weight	Varies by length of sender
Clearance from sender to tank bottom	0.75 in. (19 mm)







Auto-calibration pin



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maximatecc specializes in operator-machine interface solutions for critical environments. We support industrial machinery OEMs and partners globally with a broad portfolio of products and services. Through technology, engineering expertise and operational excellence, we make machines smart, safe and productive.

