

C1 Discriminating Sensor

This preliminary data sheet describes the Cambria C1 Discriminating Sensor. The rugged transducer detects water and fuel at five different levels, has excellent accuracy and high repeatability. The unit is made of Delrin and stainless steel, including all wetted parts and can be used in aggressive vapor environments.

Applications

Secondary Containment
Turbine Sump
Hydrocarbon Monitoring
Fuel-Alcohol-Water Discrimination
Technology Approved by Calif. Water Board
3rd party Approved



Benefits

Conventional Fuel, E15 and E85
1% accuracy at level detection
Straight-forward Field Calibration
Patented Anti-Tamper feature
Conventional Fuels, E15, E85
Low Power
Digital, Analog, 4-20ma, PWM outputs.



Preliminary Specifications

Type	Discriminating, 5 levels, Fuel/Water/Alcohol
Technology	Patented Evanescent IR Absorption
Operable sensor temp range:	-40 to 60°C
Cable temperature	-40 to 85°C
Sensor output:	0.5-5 V
Sensor diagnostics output	0 – 3.6V
Guaranteed service life time	1 Million cycles, 1 year.
Repeatability:	1%
Hysteresis	1%
Dimensions	5 inches length, drops into 1.5 inch centralizing tube
Connector	Customer driven: 8 pin connector or 2 meter cable pigtail
Response Time:	10 ms intrinsic; System response depends on output type
Case:	Delrin. NEMA-4/IP65
Approvals	Cal Water Board, 3 rd party test, UL C1 Div 1 submitted