

## **Sample Specification for Oil Water Separator Alarm (9830 OWS)**

The oil sensor shall be of a high frequency capacitance technology to monitor for the dielectric change between water and surface oil.

A pulse card mounted at the probe head will pulse the signal to the control unit via 2-conductor shielded cable. The control unit can be mounted up to .8 Km distance. The sensing probe shall be of Teflon and 316 SS wetted parts.

All calibration, power and control wiring shall be at the wall mounted Type 4X control unit. Power input shall be specified as 24vdc, 120 vac or 230 vac.

A time delay and sensitivity adjustment shall be standard to avoid nuisance alarms. The alarm relay shall be one DPDT, 5 amp dry contact. Terminal connections shall be plug-in type for ease of maintenance.

The probe length is to be sized to the application. The unit will alarm when oil is within 10 cm (4") of the probe tip. Determine the probe length required from the probe fitting to the probe tip.

The standard probe assembly shall carry a CSA Class 1 Div 1 Approval.

An optional Intrinsic Barrier may be specified to make the sensor assembly Intrinsically Safe where applicable (Part. #A00071)

The system will comprise of

- A. Controller Part # A00248 (24 vdc)
  - or Part # A00250 (120 vac)
  - or Part # A00252 (230 vac)

plus

- B. Probe Sensor Part # PAA-"length1"-D("length2")-Z  
(where Length2 = Length1 -10 cm)

The controller and probe shall be the Model 9830-OWS as manufactured by Arjay Engineering, [www.ArjayEng.com](http://www.ArjayEng.com).