

Sample Specification for Oil/Water Separator Monitor (Model 4100-OWS)

The sensing probe shall be of a high frequency capacitance technology to monitor for the dielectric change as the oil displaces the water in the separator.

A pulse card located at the probe will translate the probe signal to a frequency for high accuracy transmission via 2-conductor shielded cable. The control circuit can be mounted up to 1 km distance from the probe. The sensing probe shall be of Teflon and 316 SS wetted parts and include a concentric shield for single point auto-calibration.

All calibration, power and control wiring shall be done at the wall mounted Type 4X/IP 65 control unit. Power input shall be specified as 24vdc or 80 to 240 vac.

A graphical display on the housing door will provide a tank view of oil level, % oil level and engineered units of oil thickness. The alarm status will also be indicated.

The alarm relays shall be four SPDT, 10 amp dry contact. A time delay ON and time delay OFF shall be standard to avoid nuisance alarms. A fully adjustable differential shall be available to allow the relays to cycle on and off between two distinct points on the probe.

A 4-20 mA non-isolated proportional level output signal will be optional as required by the datasheet. An RS-485 Modbus communication port will be optional.

The probe length is to be sized to the application. For top mounting, determine the probe length required from the probe fitting to the probe tip to accommodate the lowest level measurement desired. .

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 controller and probe shall be the Model 4100-OWS as manufactured by Arjay Engineering Ltd., www.ArjayEng.com.