The build up of water levels in hydrocarbon storage tanks is an unfortunate and expensive inevitability, reducing storage capacity and corroding tank interiors. Manually discharging accumulated water potentially results in the loss of some hydrocarbons through the draw-off line, adding significant cost and environmental liabilities to storage.

The KAM ATD Automated Tank Dewatering system eliminates the loss of hydrocarbons in the water draw-off line while bringing repeatability, safety, and efficiency to the operation.
Two KAM® ATD sensors are inserted at an angle directly into the tank or from the top through full-opening ball valves.

ATD Sensor 1 monitors water concentrations at or near the bottom of the tank. When water concentrations reach 100%, Sensor 1 triggers the opening of the MOV on the water draw-off line.

The emulsion layer will descend as water is drained from the bottom of the tank. When Sensor 1 detects a predetermined level of hydrocarbon, it will trigger the closing of the MOV on the draw-off line. Because the sensor is well above the entrance to the draw-off line, no oil emulsion ever drains from the tank.

In the rare case that Sensor 1 fails to trigger the closing of the MOV, Sensor 2 will trigger both an alarm and the closing of the MOV. Again, because the sensor is still above the entrance to the draw-off line, no oil emulsion ever drains from the tank.

**SPECIFICATIONS**

- **Media:** Crude oil, refined products and chemicals
- **Material:** Wetted parts - 316 stainless steel
- **Fluid temperature:** -40º to 176ºF (-40º to 80ºC)
- **Power requirements:** 24 VDC/1 amp at 24 watts
- **Accuracy:** ±5%
- **Repeatability:** ±0.05%
- **Resolution:** ±0.01%
- **Outputs:** Selectable 4–20 mA with adjustable range or 0–5 VDC
- **Digital Out:** 24 V max RS232/RS485
- **Mounting:** 2” MNPT seal housing
  - 2”, 3”, or 4” flanged seal housing
- **Pressure ratings:** ANSI 150, 300, 600, 900, 1500
- **Hazardous areas:** ATEX II 2 G Ex d IIB T6
  - NEMA4 (IP66 equivalent)
- **Sensor dimensions:** Ø1.5” x 1.5” (38 mm x 38 mm)
- **EX enclosures:** 4.6” x 7.1” x 4.4” (117 mm x 180 mm x 112 mm)
- **Shaft length:** Per user specification

**FOR MORE INFORMATION ON KAM PRODUCTS**

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KAM CONTROLS IS AN ISO 9001 CERTIFIED COMPANY