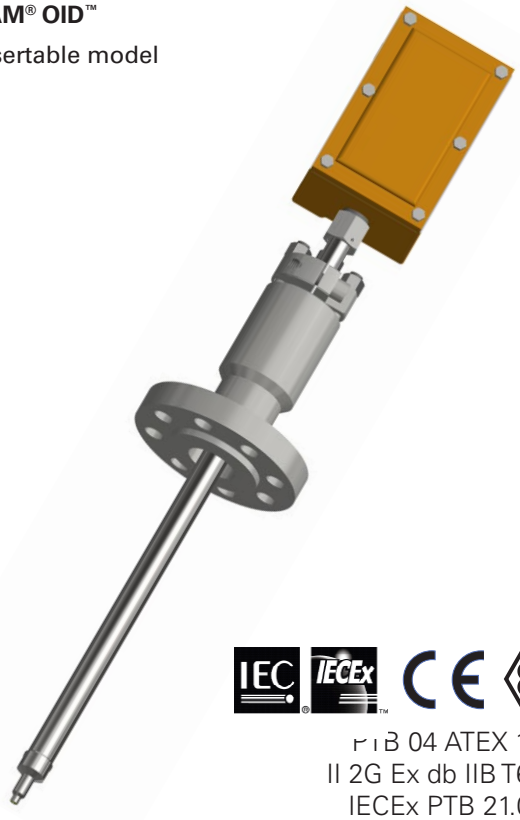
Kam® OID™

Optical Interface Detector

Kam® Simple Precision™

KAM® OID™

Insertable model



PTB 04 ATEX 1027
II 2G Ex db IIB T6 Gb
IECEx PTB 21.0012
Ex db IIB T6 Gb

The KAM® OID™ Optical Interface Detector has been the preferred sensor for interface detection between refined products since its inception in 2000. Like eyes in the pipe, it provides accurate, **real-time data on product interface even when density does not change between products,** allowing operators to make cuts with confidence and significantly reduce product downgrade and/or transmix.

Fiber optics within the optical probe respond to the absorption, fluorescence, and refractive properties of the fluid, and the combined return signal is then turned into an "optical signature," recognizing qualitative changes in pipeline fluids.

The OID is designed for minimal maintenance and ongoing ease of use. **Long-lasting LED light sources** ensure long-term, stable performance and minimal power consumption. All electronics are located in an explosion-proof enclosure directly on the end of the probe for a complete and compact unit with maximum installation flexibility.

Measurement is completely automatic and the output signal can be sent to the SCADA, PLC's, or to a Central Control Room.

KEY FEATURES

- The optical probe utilizes optimal wavelength for interface detection
- Detects the interface of specialty fuels such as ULSD, LSD, etc.
- LEDs for long-term performance with minimal power and maintenance requirements

Detects interface when densitometers cannot

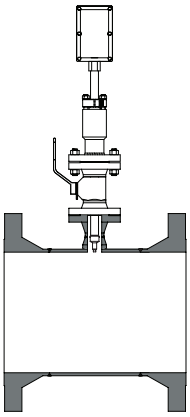
SIMPLICITY SAVES TIME AND MONEY

- Lenses do not require cleaning
- No moving parts
- Measurement is fully automatic
- Insertable/retractable and flow through models available
- Output signal can be sent to the SCADA, PLC's, or to a Central Control Room
- Insertable model installs without having to drain the pipe

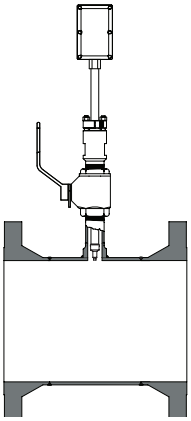
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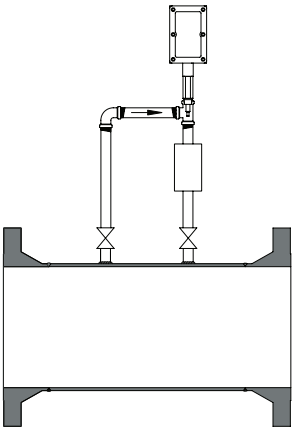
AVAILABLE MODELS and MOUNTING OPTIONS



Insertable OID™
on a main pipe,
with 2", 3", or 4" flanged seal
housing



Insertable OID™
on a main pipe, with
2" MNPT seal housing



Flow through OID™
on a densitometer
loop, with 3/4" or 1"
MNPT

APPLICATIONS

- **Batching**
- **Interface detection**
- **Product transmix management**
- **Product downgrade management**
- **Pipeline automation**
- **Chemicals interface**

SPECIFICATIONS

Media:	**Refined products**
Material:	**Wetted parts–316* stainless steel** **Electronics enclosure–copper-free aluminum**
Power:	**12–24 VDC 2 Watts max**
Communication:	**4-20 mA, RS232, RS485**
Fluid temp.:	**-40° to 176°F (-40° to 80°C)**
Ambient temp.:	**-4° to 140°F (-20° to 60°C)**
Pressure ratings:	**ANSI 150, 300, 600, 900**
Hazardous area:	**PTB04 ATEX 1027** **II 2 G EEx d IIB T6** **IECEx PTB 21.0012** **Ex db IIB T6 Gb**
Mounting:	**3/4" and 1" MNPT** **2" MNPT Seal Housing*** **2", 3", or 4" Flanged Seal Housing**
EX enclosure:	**3" x 6" x 3" (76mm x 152mm x 76mm)**
Shaft length:	**12" to 60"**
Pipe size:	**3/4" to 48"**
Weight:	**from 10 lbs. (4.5kg)**

*** Seal Housing for 2" MNPT Models are Carbon Steel.**

FOR MORE INFORMATION ON KAM PRODUCTS
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