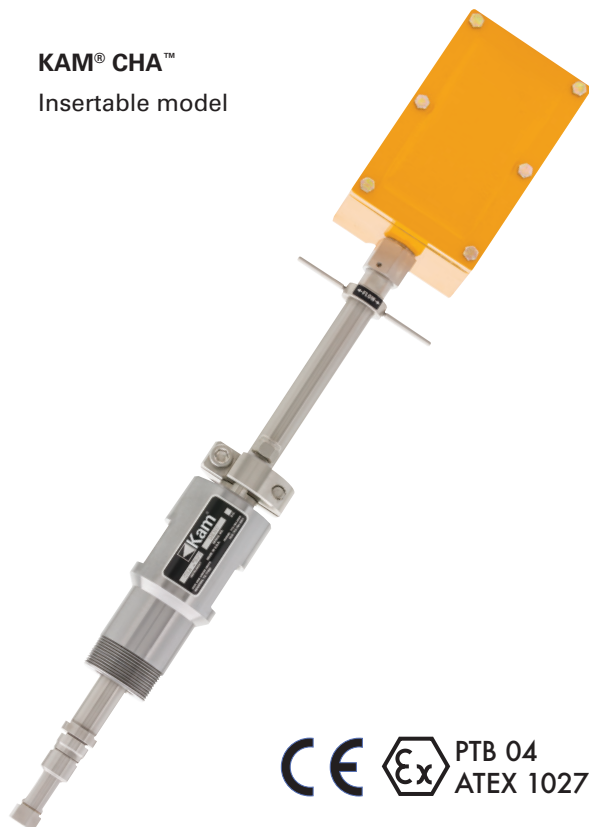


**KAM® CHA™**  
Insertable model



The KAM® CHA™ Colorimeter/Haze Analyzer is the ideal quantitative solution for in-line monitoring of both the color of refined products and the presence of haze (water and/or sediment).

Utilizing a unique 5-LED design, the KAM® CHA™ detects fluid color variations within 1% of scale. Final outputs are expressed as haze plus one of three industry-standard color scales (Saybolt, Platinum–Cobalt, ASTM D1500) or digitally in X,Y,Z. Measurement is fully automatic, and the output signal can be sent to the SCADA, PLC's, or to a Central Control Room for logging or display on chart recorders or monitors.

The KAM® CHA™ is factory calibrated to certified absolute standards and does not require site calibration. Using long-lasting LED light sources ensures long-term, stable performance with limited maintenance and power requirements. In addition, all electronics are located within an explosion-proof enclosure directly on the atmospheric end of the optical probe, creating a complete and compact unit with maximum installation flexibility.

The KAM® CHA™ probe can be installed in an analyzer loop or in the main line, and because it's easily mounted through a full-opening ball valve, you can insert or retract the probe without ever needing to drain the pipe.

## KEY FEATURES

5-LED design offers greater accuracy over other, 3-LED models

Uses LEDs for long-term performance with minimal power and maintenance requirements

Inserts in directly in pipeline under process conditions

Outputs for haze plus industry scales ASTM D1500, Platinum-Colbalt, and Saybolt

All requisite electronics housed on atmospheric end of probe; requires no additional controller

## APPLICATIONS

Multi-product pipeline interface detection

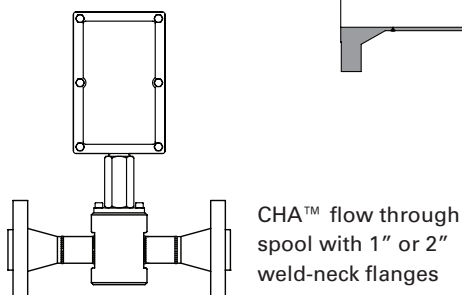
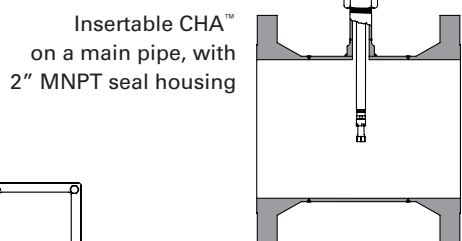
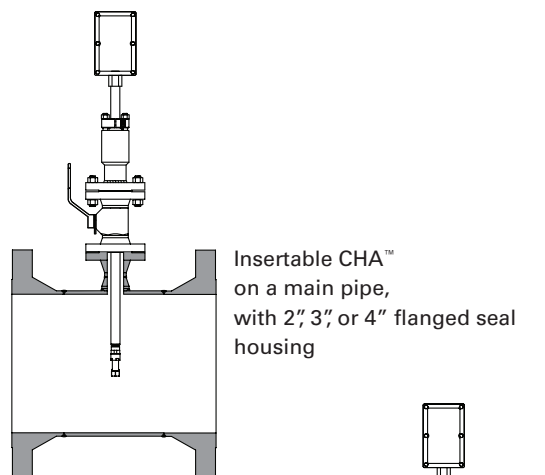
Transmix/regrade reduction

Haze monitoring/quality control at refineries and pipeline terminals

Haze monitoring/quality control for incoming diesel fuel in power and marine applications

Haze/quality control for aviation fuels at pipeline, tank farm, fuel trucks and carts

## AVAILABLE MODELS and MOUNTING OPTIONS



## SPECIFICATIONS

Media:	Refined products
Material:	Wetted parts—316 stainless steel, sapphire
Power:	12–24 VDC 20 Watts max
Outputs:	(2) 4–20 mA (haze + color scale) RS485 (MODBUS; X,Y,Z)
Fluid temperature:	-40° to 200°F (-40° to 93°C)
Electronics temp.:	-22° to 185°F (-30° to 85°C)
Pressure ratings:	ANSI 150, 300, 600
Accuracy:	Haze ± 5%, Color ± 1%
Repeatability:	Haze ± 1%, Color ± 1%
Reproducibility:	Haze ± 1%, Color ± 1%
Haze Range:	0-100%
Color Range:	Complete range of ASTM D 1500; Saybolt; Platinum-Cobalt); X,Y,Z
Mounting:	1" and 2" Flanged Flow Through 2" MNPT Seal Housing 2", 3", or 4" Flanged Seal Housing
Hazardous area:	PTB04 ATEX 1027 (Ex II 2 G Ex db IIBT6 Gb) NEMA4 (IP66 equivalent)
Sensor Dimensions:	3.5" x 1.25" Ø (89 mm x 32 mm)
EX enclosure:	4.6" x 7.1" x 4.4" (117 mm x 180 mm x 112 mm)
Shaft length:	12" to 60" (305mm to 1524mm)
Pipe size:	1" to 48" (25 mm to 1219 mm)
Weight:	from 20 lbs. (9kg)

FOR MORE INFORMATION ON KAM PRODUCTS  
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