

KAM® CHA™
Insertable model



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

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-Cobalt, and Saybolt

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

APPLICATIONS

Multi-product pipeline interface detection

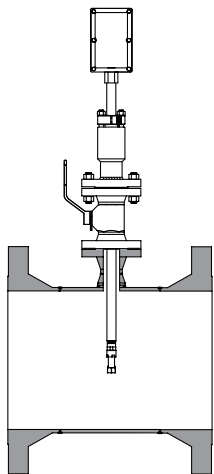
Transmix/regrade reduction

Haze monitoring/quality control at refineries and pipeline terminals

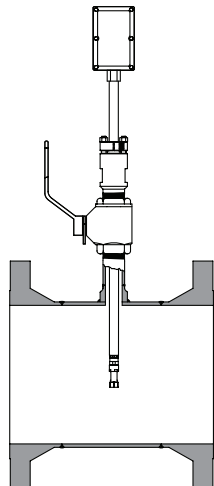
Haze monitoring/quality control for incoming diesel fuel in power and marine applications

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

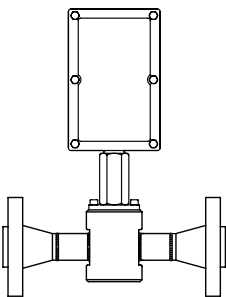
AVAILABLE MODELS and MOUNTING OPTIONS



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



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



CHA™ flow through
spool with 1" or 2"
weld-neck flanges

SPECIFICATIONS

Media:	Refined products
Material:	Wetted parts—316 stainless steel, sapphire
Power:	12–24 VDC 5 Watts max
Outputs:	(2) 4–20 mA (haze + color scale) RS485 (MODBUS; X,Y,Z)
Fluid temperature:	-40° to 176°F (-40° to 80°C)
Ambient temp.:	-4° to 140°F (-20° to 60°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; APHA Platinum-Cobalt
Mounting:	1" or 2" Flanged Flow Through 2" MNPT Seal Housing 2", 3", or 4" Flanged Seal Housing
Hazardous area:	PTB 04 ATEX 1027 Ex II 2 G Ex db IIB T6 Gb IECEX PTB 21.0012 Ex db IIB T6 Gb
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. (9 kg)

FOR MORE INFORMATION ON KAM PRODUCTS
visit WWW.KAM.COM

T: +1 713 784 0000

F: +1 713 784 0001

E: sales@kam.com

KAM CONTROLS, INC.

3939 Ann Arbor Drive

Houston, TX 77063 USA

KAM CONTROLS reserves the right to make changes to this document without notice. CHALIT0917