Kam® CHA™
Colorimeter Haze Analyzer

40 YEARS SINCE 1983 ◀ Kam®

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-Colbalt, and Saybolt

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

APPLICATIONS

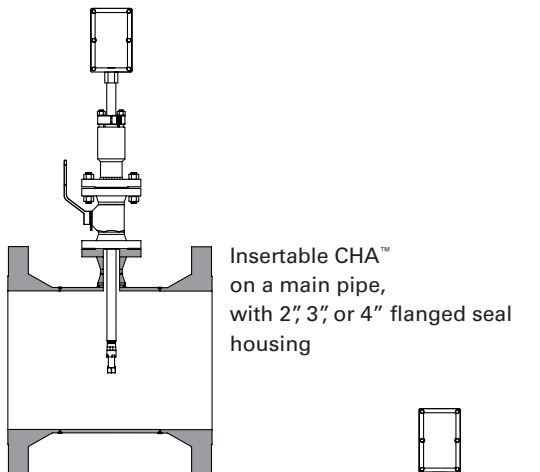Multi-product pipeline interface detection

Transmix/regrade reduction

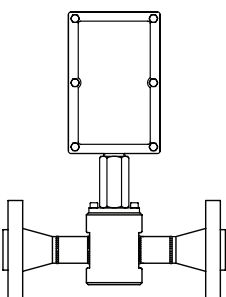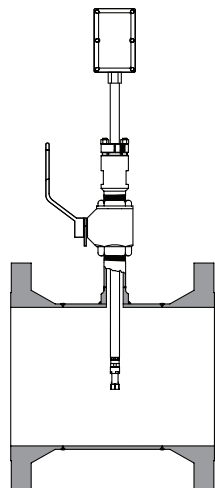Haze monitoring/quality control at refineries and pipeline terminals

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

Kam® CHA™
Colorimeter Haze Analyzer

◀Kam®   Simple Precision™

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

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

SPECIFICATIONS

Media:	Refined products
Material:	Wetted parts–316 stainless steel*, sapphire
	Electronics Enclosure–Copper-free aluminum
Power:	12–24 VDC 5 Watts max
Outputs:	(2) 4-20 mA (haze + color scale)
	RS485 (MODBUS; X,Y,Z)
Fluid temperature:	-40º to 176ºF (-40º to 80ºC)
Ambient temp.:	-4º to 140ºF (-20º to 60ºC)
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

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ISO 9001:2015 CERTIFIED COMPANY