TANAKA

Automatic Aniline Point Tester

aap-6

- **Ergonomically color-coordinated display for high visibility for everybody and intuitive switch operation.**
- **Enhanced versatility including Ethernet for LIMS, USB port for flash memory or keyboard, password protection and data storage (max.200 results).**
- **All-in-one chassis design: compact, light weight and premier exterior.**

Intelligent Full-Auto operation

aap-6 automates the aniline point test of petroleum products. The theme of 6th generation is "Ergonomic, Versatile and Premium".

aap-6 is capable of covering a wide range of samples including transparent samples as well as dark / opaque samples.



User-friendly mesurring cell

The measuring cell can be easily removed and placed on an analytical balance for weighing viscous samples including solid samples at ambient temperature. Water jacketed measuring cells are also available as an option for sub-ambient temperature.

Easy operation

Deliver the dried sample and aniline, enter the expected aniline point, and press the START key; all the rest of the test procedures such as heating, cooling and aniline point detection are performed automatically. The operator has an option to report the result after either single determination or multiple determinations.

Easier and safer aniline handling

For years, handling of the toxic aniline has been considered a hazardous operation. A bottle top dispenser can be connected to the measuring cell for directly delivering aniline without a manual pipette operation. Upon completing a test, discharge the aniline mixture from the bottom of the measuring cell, pour a cleaning agent, turn on the stirrer, and discharge the cleaning agent. The measuring cell can be cleaned without disassembling, which makes the cleaning easier and safer.

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Specifications

Conforming standards	ISO 2977, ASTM D611, etc.
Samples	Transparent or opaque/dark (<8.0 on ASTM color scale)
Measuring range	Ambient +20 to 170˚C (338˚F) For below ambient + 20˚C, use the optional water jacketed measuring cell and a cryostat.
Temperature sensor	Pt100 in stainless steel sheath
Aniline point detector	Photo-electric cell, with special detection circuitry
Measuring cell	Modified u-tube type. vacuum jacketed glass cell with PTFE stopcock at the bottom for drainage.
Display	5.7 inch color LCD with LED back light
Heater	Immersion heater in stainless steel sheath : 20 W
Sequense control	By an on-board microcomputer
Test mode	Single, repeat (2 kinds, average is reported to nearest 0.05˚C), SPE and manual temp set
I/O Port	Ethernet x 1 for LIMS USB x 1 for Flash Memory or Keyboard RS-232C x 1 for PC or Optional Printer
Safety mechanism	Automatically shuts off and the problem is reported by buzzer and display, in case: (a) EAP+10˚C or at 170˚C is reached, (b) Temperature sensor is found defective, (c) Light projector or receiver is found defective, (d) Built in battery is found drained out or, (e) Control computer runs away (no display)
Sise (W x D x H)	230 x 470 x 490 (mm)
Weight	14 kg
Installation site	10 to 40˚C RH : Less than 90%
Power supply	AC 100 to 240 V 50 / 60 Hz 125 W (max.)

Ordering information

Standart accessories

	Code No.	Part Name	Qty
1.	AAP-03-011	Measuring cell,upper,2-inlet	1pc
2.	010-00-224	Measuring cell,lower	1pc
3.	MPC-02-032	AC power cord 100 / 120 V 3.0 m	1pc
4.	MPC-02-033	AC power cord 220 / 240 V 2.5 m	(or)
5.	AAP-02-423	Measuring cell stand	1pc
6.	520-00-201	Hex driver	1pc
7.	320-00-021	Fuse ET2A	1pc
8.		Instruction manual	1pc

Optional accessories

	Code No.	Part Name	Qty
1.	010-00-225	Water jacketed measuring cell,lower	1pc
2.	070-00-068	Printer BS2-80TS with connecting cable	1pc
3.	070-00-093	Printer roll paper (2rolls / pack)	1pc
4.	070-00-281	Mini USB keyboard	1pc
5.	010-00-223	Measuring cell, upper,1-inlet	1pc
6.	AAP-02-031	Insulating tube	1pc

Suggested spares

	Code No.	Part Name	Qty
1.	AAP-03-011	Measuring cell,upper,2-inlet	1pc
2.	010-00-224	Measuring cell, lower	1pc
3.	AAP-04-411	Temperature sensor	1pc
4.	AAP-04-011	Heater	1pc
5.	320-00-021	Fuse ET2A	1pc



PTFE tubing connected to measuring cell for direct delivery from bottle-top dispenser for a safer aniline handling. PTFE tubing and fitting are not provided with aap-6. (option)

Specifications subject to change without prior notice.

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