## Automated Aniline Point Tester

# *aap-6*

- **Ergonomic 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

*Model aap-6 automates the aniline point test of petroleum products. The theme of 6th generation is "Ergonomic, Versatile and Premium".*
*Model aap-6 is capable of covering a wide range of samples including transparent samples as well as dark/opaque samples.*

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

**EASY OPERATION**: Just sample the specimen 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 it, which makes the cleaning easier and safer.

TANAKA

# Automated Aniline Point Tester, *aap-6*

## 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: 20W

**SEQUENSE CONTROL:**
By an on-board microcomputer

**TEST MODE:**
Single, Repeat (2 kinds, average is reported to nearest 0.05°C), Search, Pre-heat and User Custom

**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) Control computer runs away (no display)

**DIMENSION & WEIGHT:**
230W x 470D x 490H (mm), 14kg

**INSTALLATION SITE:**
RT: 10 to 40°C
RH: Less than 90%

**POWER SUPPLY:**
AC100 to 240V 50/60Hz 0.1kW(max.)

## ORDERING INFORMATION:

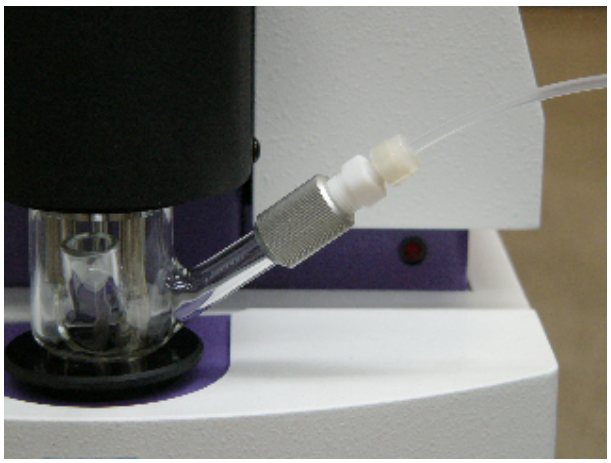
**STANDARD ACCESSORIES:**

| | | |
|---|---|---|
| 1. | AC Power Cord, 3.0m (<125V) or 2.5m (>200V) | 1pc |
| 2. | Measuring Cell Stand | 1pc |
| 3. | Hexagonal Wrench | 1pc |
| 4. | Spare Glass Tube Fuse (2A) | 1pc |
| 5. | Instruction Manual | 1pc |

**OPIONAL ACCESSORIES:**
Water Jacketed Measuring Cell, Lower
Printer, BS2-80TS w/connecting cable

**SUGGESTED SPARES:**

| | | |
|---|---|---|
| 1. | Measuring Cell, Upper, 2-Inlet Type | 1pc |
| 2. | Measuring Cell. Lower | 1pc |
| 3. | Temperature Sensor | 1pc |
| 4. | Heater Assembly | 1pc |
| 5. | Glass Tube Fuse 2A | 1pc |



PTFE tubing connected to measuring cell for direct connection to bottle-top dispenser for a safer aniline handling. PTFE tubing and fitting not provided with *aap-6*.

Specifications subject to change without prior notice.

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