APPARATUS

CODE	PART NAME	REMARKS
APM-00-015	**apm-8**	Pensky-Martens Closed Cup Flash Point Tester

STANDARD ACCESSORIES

CODE	PART NAME	Qty	REMARKS
APM-02-001	**Test Cup Assembly**	1	
320-00-035	**Thermofuse**	1	Pack of 5, with Insulation Tube.
210-02-161	**Gas Hose ϕ9 x ϕ16, 1.5m with Hose Bands**	1	
APM-04-431	**Windscreen for apm-8**	1	
————	**apm-8 MANUALS**	1	Manuals for apm-8.

OPTIONAL ACCESSORIES

CODE	PART NAME	REMARKS
070-00-068	**Printer, BS2-80TS**	Prints out test data and instrument settings.
070-00-281	**Mini USB Keyboard**	Sample ID entering

SUGGESTED SPARES for 2 YEARS

CODE	PART NAME	Qty	REMARKS
APM-02-001	**Test Cup Assembly**	1	Refer to Standard Accessories.
320-00-035	**Thermofuse**	1	Pack of 5, with Insulation Tube.
ABL-01-003	**Electric Igniter, EI-8**	2	
APM-04-031	**Temperature Sensor for apm-8**	1	
APM-03-032	**Flash Detector for APM-7/apm-8**	1	

TANAKA Automatic Petroleum Tester

AUTOMATED PENSKY-MERTENS CLOSED CUP FLASH POINT TESTER

apm-8

All New

Model apm-8 is the automated Pensky-Martens Closed Cup flash point tester from Tanaka. Based on 45 years experience of manufacturing the automated flash point testers, innovative 8th generation series has been released. The theme of 8th generation is "Ergonomic, Versatile and Premium".

- **ERGONOMIC COLOR-COORDINATED DISPLAY FOR HIGH VISIBILITY FOR EVERYBODY (UNIVERSAL DESIGN) AND INTUITIVE SWITCH OPERATION.**
- **ENHANCED VERSATILITY INCLUDING USB PORT FOR OPTIONAL FLASH MEMORY OR KEYBOARD, PASSWORD PROTECTION AND DATA STRAGE.**
- **ALL-IN-ONE CHASSIS DESIGN: COMPACT, LIGHT-WEIGHT AND PREMIUM EXTERIOR DESIGN.**
- **CONFORMS TO STANDARD TEST METHOD**
  (ISO 2719, ASTM D93, IP34)

SINGLE ACTION SETTING

The cup cover and the stirrer are permanently mounted on a swing-arm assembly, which allows an easy handling of the test cup cover. It makes free from handling the hot cup cover after completing a test. The swing arm assembly can be lifted up to vertical position for easier test cup cleaning.

EASY OPERATION

Select a test mode and enter the expected flash point; while the instrument executes the test, you are free to do other lab work. The instrument follows the exact procedures prescribed in the test method, and the completion of the test cycle is signaled by beeps. The test result is brightly shown on the color LCD module.

INTERCHANGEABLE IGNITION SOURCE

apm-8 is equipped with both gas and electric igniter as the ignition source. It only takes a few minutes to switch from gas to electric or vice versa.

DRAFT PROTECTION SHIELD COVER

A FM4910 conforming cover insures the flame integrity. This material shall meet the numerical criterion of each index.　(1)FPI(Fire Propagation Index)≤6　(2)SDI(Smoke Damage Index)≤0.4

DATA HANDLING

The unit is equipped to store up to 200 test results and export to an optional printer or to a LIMS through an RS-232 port or USB memory.

USB PORT

A USB port allows connecting USB keyboard for easy entering sample name and connecting USB flash memory for data copy to a PC or test conditions/parameters copy to the tester.

PASSWORD PROTECTION

With setting up password by the administrator, the device is protected against inadvertent change of parameters by the operator.

ALL-IN ONE DESIGN IN LIGHTWEIGHT

The all-in-one design is much lighter than old model, APM-7 by approximately 30%, which is world's smallest class in volume.

SPECIFICATIONS

TYPE	All –in one, microprocessor controlled
TEST STANDARDS	ISO 2719, ASTM D93, IP34
MEASURING RANGE	Ambient to 370℃
MEASUREMENT MODES	ASTM D93 A-normal, ASTM D93 A-SPE (search), ASTM D93 B-normal, ASTM D93 B-SPE (search), ASTM D93 C-normal, ASTM D93 C-SPE (search) and User custom
HEATER	Band type heater:530W@115V or　500W@230V
COOLING DEVICE	Forced air cooling by fan
DISPLAY	5.7 inch (117 x 88mm) color LCD with LED back light
STIRRING	100, 250 rpm (selectable)
TEMPERATURE SENSOR	PT-100 in stainless steel sheath
FLASH DETECTOR	CRC Thermocouple
IGNITION SOURCE	Gas ignition with automatic lighting or electric ignition. Interchangeable
BAROMETRIC CORRECTION	Automatic correction by built-in barometric pressure sensor
I/O PORT	RS-232C = 1 channel (for PC or Optional Printer) USB=1 channel (for USB keyboard or USB Flash Memory)
SAFETY SHUTDOWN	Automatically shuts off and the problem is reported by buzzer and display, in case: (a) EFP+20 ^{o}C or 370 ^{o}C is reached, (b) temperature sensor is found defective, (c) flash detector is found defective, (d) thermofuse is blown, (e) electric Igniter is blown, (f) built-in battery is found drained out, (g) test cover is not set in place, (h)control computer runs away (no display) (i) Stirring motor stopped
GAS SUPPLY (When Gas Ignition is used)	LP gas or natural gas (Max. pressure:10kPa)
POWER SUPPLY	100/120VAC or 220/240 VAC, 50/60Hz
POWER CONSUMPTION	720W MAX.
ELECTRICITY CONSUMPTION	170Wh for 1 test (about 60 min), 64.26gCO_2 (@ 0.378kgCO_2/1kWh)
AMBIENT TEMP. RANGE	10℃ to 35℃
DIMENSIONS & WEIGHT	230mm (W) × 470mm (D) × 390mm (H) 　　17kg