

**AUTOMATED  
TAG  
CLOSED CUP  
FLASH POINT  
TESTER  
ATG-7**



## Simplest & Easiest Operation

Model ATG-7 is the latest version of the automated Tag Closed Cup(TCC) flash point tester from Tanaka. When this seventh generation model was designed after 35 years of delivering the automated flash point testers to the petroleum industry, ease of operation and maintenance was sought.

**SINGLE ACTION SETTING:** Cup cover assembly is mounted on a swing-arm assembly. This allows for easy handling of the test cup cover. It makes free from handling the hot cup cover after completing a test.

**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 is signaled by beeps. The test result is brightly shown on the VFD module.

**INTERCHANGEABLE IGNITION SOURCE:** ATG-7 is equipped with both gas and electric igniter as the ignition source. Only a few minutes does it take to switch from gas to electric or vice versa.

**DRAFT PROTECTION SHIELD COVER:** A tinted acrylic cover not only insures the flame integrity but reduces the glare from the electric igniter.

**DATA HANDLING:** The unit is equipped to store up to 50 successive test results and export to an optional printer or to a LIMS through an RS232 port.

**MODULAR DESIGN:** The tester consists of a computer control unit and a test head unit, allowing remotely placing the test head unit up to 3 meters away. An optional Changeover unit can be purchased to attach the control unit to another type of flash point test head unit (APM-7 or ACO-7). The control unit is designed to control any type of the three different flash point test head unit, but one at a time.

### SPECIFICATIONS:

#### CONFORMING STANDARDS:

ASTM D56 etc.

#### MEASURING RANGE:

Ambient to 95 °C (for sub-ambient, consult TANAKA)

#### TEST MODE:

ASTM D56, Rapid, Special (Fast Search),

User's Custom

#### DISPLAY:

Fluorescent display tube (VFD Module)

#### TEMPERATUR SENSOR:

PT-100 in stainless steel sheath

#### FLASH DETECTOR:

CRC Thermocouple

#### HEATER:

Plate type heater: 250W@100V or 250W@220V

#### IGNITION SOURCE:

Gas ignition with automatic lighting or electric ignition, interchangeable

#### COOLING AFTER TEST:

By replacing bath liquid

#### BAROMETRIC CORRECTION:

By built-in barometric pressure sensor

#### DATA OUTPUT:

RS-232C 1 channel (for PC or Optional Printer)

#### SAFETY MECHANISM:

Automatically shuts off and the problem is reported by buzzer and display, in case:

- (a) EFP+10 °C or at 95 °C is reached,
- (b) temperature sensor is found defective,
- (c) flash detector is found defective,
- (d) thermofuse is blown,
- (e) electric Ignitor is blown,
- (f) built-in battery is found drained out,
- (g) Test cover is not set in place,
- (h) flash detector detects continuous burning, or
- (i) control computer runs away (no display)

#### DIMENSION & WEIGHT:

Control unit: 230W x 455D x 110H (mm), 6.0kg

Test unit: 230W x 480D x 275H (mm), 15.5kg

#### INSTALLATION SITE:

Ambient temperature: 0 to 40 °C

RH: Less than 90%(no condensation)

### UTILITY:

#### POWER SUPPLY:

AC100/120V or 220/240V 50/60Hz

(set at the factory) 0.5kW(max.)

#### GAS SUPPLY (When Gas Ignition is used):

LP gas or natural gas (Max. pressure<9.8kPa)

### ORDERING INFORMATION:

#### STANDARD ACCESSORIES:

- |   |      |
|---|------|
| 1. Test Cup   | 1pc  |
| 2. O-Ring for Test Cup G-45                           | 1pc  |
| 3. Power Connecting Cable, 0.6m                       | 1pc  |
| 4. Signal Connecting Cable, 0.6m                      | 1pc  |
| 5. AC Power Cord, 3.0m (<AC125V)<br>or 2.5m (>AC200V) | 1pc  |
| 6. Spare Thermofuse                                   | 3pcs |
| 7. Spare Electric Igniter                             | 1pc  |
| 8. Insulation tube for Thermofuse, 0.1m               | 1pc  |
| 9. Gas Hose 9x16x1500mm                               | 1pc  |
| 10. Gas Hose Band                                     | 2pcs |
| 11. Braided Hose for Water Supply, 1.5m               | 1pc  |
| 12. Wire Band   | 4pcs |
| 13. Strainer  | 1pc  |
| 14. Drain Hose 15x19x1500mm                           | 1pc  |
| 15. Drain Hose Band                                   | 1pc  |
| 16. Dripping Plate                                    | 1pc  |
| 17. Wind Screen                                       | 1pc  |
| 18. Instruction Manual                                | 1pc  |

#### OPTIONAL ACCESSORIES:

Power Connecting Cable, 3m

Signal Connecting Cable, 3m

Built-in Clock Board (for time/date verification)

Printer, BS2-80TS (we recommend that optional Built-in Clock Board be purchased with this Printer)

Changeover Unit, Model: CHG-7

Chiller Unit for Sub-ambient Test (Use Altered Test Unit)

#### SUGGESTED SPARES:

- |   |      |
|---|------|
| 1. Test Cup                                   | 1pc  |
| 2. O-Ring G-45                                | 1pc  |
| 3. Electric Igniter                           | 2pcs |
| 4. Thermofuse (pack of 5, w/ insulating tube) | 1pk  |
| 5. Temperature Sensor                         | 1pc  |
| 6. Flash Detector                             | 1pc  |

Specifications subject to change without prior notice.

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