Automatic Crude Petroleum Distillation Tester　Model ADM-1CP

[Overview]

The automatic crude petroleum distillation tester, ADM-1CP, automatically performs distillation test of crude oil at atmospheric pressure based on the "Test Method for Distillation of Petroleum Products" under JIS K2601.
Test results can be output in versatile forms thanks to the advanced data processing function.
It is possible to set the recovery rate of gasoline, kerosene, light oil and residual oil by specifying the distillation temperature range.
In case of crude oil distillation, light oil to heavy oil will be consecutively distilled, so the temperature of condensation tube is controlled, in proportion to the distillation temperature, to your specified arbitrary temperature using the cooling/heating function of Peltier element.
In designing this tester, many advantages of our Automatic Distillation Tester, Model ADM-1, which have been appreciated by many users, have been adopted.

[Features]

- **Versatile display on the LCD**
  Screen for condition setting is available for 12 samples. Test conditions can be selected and set on a menu screen. Test progress can be confirmed and data processing mode can be selected on the display.
- **Alert display**
  More than 20 error messages are available as alert for operation error, inadequate input, catching fire of sample oil, mechanical or electrical error, etc.
- **100% correction function**
  By applying the V.CHK function, test for a sample of 300mL or less is possible and individual difference of test results can be prevented.
- **Highly precise distillation curves**
  Clear and accurate distillation curves can be drawn on a recording paper with 1°C scale for the range of 0 to 300°C or 0 to 400°C.
- **Safety function**
  Distillation is automatically stopped by the function to detect negligence of cylinder, abnormal distillation or sample's catching fire, etc. A shutter for extinction is equipped with this tester for efficient extinction by CO_2 gas to be fed from an external source.
- **Temperature control for receiver chamber**
  Temperature in the receiver chamber can be controlled by Peltier element to your specified temperature.

[Specifications]

Measuring range	0 to 300°C (corresponding to the JIS B7410 DIST-7 thermometer) 0 to 400°C (corresponding to the JIS B7410 DIST-8 thermometer)
Temperature display	Distillation temperature, receiver chamber temperature & condenser tube temperature; To be displayed at 0.1°C unit
Temperature sensor	Special type platinum resistance sensor
Distillation speed	4.5 ±0.5 mL/min.
Data display	LCD of 40 characters x 8 lines: Such screens of the names of 12 programs, condition setting, test progress and data processing, etc. can be displayed.
Data output	Thermal graphic printer (110mm paper width): With monitoring distillation status simultaneously, Output by report form of 1% data and distillation curve
Test end setting	By CUT (Vol., temp., time) or D.P. (end point) to be selected
Alert display	Available for operation error, inadequate setting, failure, etc.
Safety function	Detection and extinction of sample oil's catching fire
RS-232C output	2 ports equipped (for plotter and PC exclusively)
Heater	Nichrom heating element, 1kW
Refrigeration of heater	Cooling by fan with timer
Condensation tube temperature	Controllable for 0 to 60°C by Peltier element
Power supply	100V AC, 50/60Hz, 20A (Supplied with an outer transformer for local voltage)
Dimensions and weight	460(W) x 510(D) x 750(H) mm, Net approx. 65kg

* Specifications are subject to change without prior notice according to technical improvement.

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