

# THERMO SCIENTIFIC HAAKE VISCOTESTER 1 PLUS AND 2 PLUS

## Application

These small, battery-operated rotational viscometers are suitable for quick and reliable tests and comparative measurements for quality control applications. The hand-held instruments can also be operated on a stand.

## User friendliness

The operation of the Thermo Scientific HAAKE Viscotester 1 plus and 2 plus is easy due to the one-button operation. The viscotester is switched on and off by pushing the button once. Pushing the button again selects the rotor type and starts the measurement.

## Digital display

Contrary to the traditional viscotester models where the viscosity value is read from an analog dial, the HAAKE Viscotesters 1 plus and 2 plus show the viscosity value on a digital display. Therefore, errors caused by misreading the dial belong to the past. Possible handling errors as well as service information are also shown on the display.

## Main features

- Quick, exact and reliable
- One button operation
- LCD display
- No mains supply required

## Typical application fields

- Quick viscosity tests, e.g. for process optimization or machine adjustment
- Batch control in production

## Typical samples

- Printing inks, paints, inks
- Shampoos, creams, lotions
- Oils, greases, pastes
- Sauces, thickeners

## Measuring principle

A rotor rotating at a constant speed is immersed in the fluid to be tested; the fluid's resistance to the rotation measures the viscosity of the fluid. The small battery-operated rotational viscometer can be operated independently of a mains supply, which means quick and reliable viscosity measurements can be performed virtually everywhere.

## Compatibility

Measuring cups and rotors from previous viscometer models – Thermo Scientific HAAKE VT01 and VT02 – can also be used with the plus units.



## Technical data

- Viscosity range\*
  - 1 plus: 1.5 mPas – 330 mPas
  - 2 plus: 0.3 dPas – 4000 dPas (30 mPas – 400.000 mPas)
- Temperature
  - up to 150 °C
- Rotor speed
  - 62,5 rpm
- Reproducibility
  - +/- 1 % FSD
- Measuring accuracy
  - standard: +/- 5 % FSD
  - optional: +/- 1 % FSD (HAAKE Viscotester 2 plus)
- Standard display
  - HAAKE Viscotester 1 plus  $\eta$  in mPas
  - HAAKE Viscotester 2 plus  $\eta$  in dPas
  - HAAKE Viscotester 2 plus  $\eta$  in mPas
- Optional

\*1 mPas = 1 cP



222-1678 Support Stand



222-1679 Rotor No 1



222-1680 Rotor No 2



222-1681 Rotor No 3



222-1682 Rotor No 4



222-1683 Rotor No 5



222-1685 Cup B



222-1684 Cup A



222-1686 Cup 3

## Order information

Order-No.	Description
399-0100	HAAKE Viscotester 1 plus: Basic instrument with batteries Instrument holder 2 Measuring cups (A and B) 3 Rotors (No. 3, 4, 5) Delivered in a carrying case
399-0200	HAAKE Viscotester 2 plus: Basic instrument with batteries Instrument holder 1 Measuring cup (3) 3 Rotors (No. 1, 2, 3) Delivered in a carrying case
222-1693	Calibration to a measuring accuracy of +/- 1% FSD (HAAKE Viscotester 2 plus)
399-0202	HAAKE Viscotester 2 plus $\eta$ in mPas
222-1688	Battery charger incl. 4 AA batteries

