

# VISCO DENS PLUS

## Heated Electronic Falling Ball Viscosity Measuring Device

As viscosity of fuel, lubricating and hydraulic oils is an important denominator to assess the oil quality, it is necessary to regularly obtain information on its condition. The VISCO DENS PLUS provides an easy and quick test method and combines two measuring procedures, i.e. viscosity and density in one test. The significant advantage of the device is the capability to apply the same oil sample with the same test tube at three different temperatures (40 °C, 50 °C and 80 °C). The determination of oil density in the first step allows for more precise indication of the oil viscosity.



### Features:

- Measuring range:
  - Viscosity: 1 - 999 m<sup>2</sup>/s
  - Density: 0.82 – 1.05 g/ml
- Measuring temperature: 40°C, 50°C, 80°C
- Measuring time: about 15 min.
- Oil sample: approx. 200 ml
- Accuracy: +/- 3 %

### Benefits:

- Only one device to measure two important parameters
- No oil sample change for each test
- Three different temperatures applicable
- Four different hydrometers with automatically converted density value to 15 °C

The simple test procedure starts by pre-heating the oil sample filled in the metal tube of the device and measuring its density with the corresponding hydrometer. The density value is automatically converted to standard temperature of 15 °C. The oil viscosity can be measured using the same pre-heated sample and employing the falling ball principle. The size of the ball for a particular test is chosen upon the oil viscosity and the temperature to be applied. By inverting the metal tube several times, the average viscosity value is automatically defined and can be noted as the end-result.