PV 100 Probe Viscometer

Model PV 100 is a user-friendly process viscosity control system that requires little operator involvement.

- Continuous, quick, linear response
- Defined shear measurement
- Continuous linear 4-20mA output
- Direct in-tank measurement
- Optimizes product quality through automatic control
- Helps reduce production and operating costs
- Optional Controller

Applications

| Adhesive | Paper Coatings |
| Chemicals | Petroleum Products |
| Coatings | Pharmaceutical |
| Cosmetics | Polymers |
| Dairy | Printing |
| Drilling Fluids | Resins |
| Epoxies | Sealants |
| Fruit Juice | Solvents |
| Gels | Starches |
| Oil | Varnish |
| Paints | |

Concentric cylinders provide viscosity measurement at a defined shear.

ATEX Approved
The PV 100 Process Viscometer (rotational principle) is especially suited for the highly sensitive control and regulation of medium and high viscosity materials.

**OPTIONS INCLUDE:**

- Immersion probe and flow probe with magnet coupling and resistant to pressure up to 6.4 MPa (930 psi)
- Immersion probes for containers for standard lengths:
  - 150 mm
  - 250 mm
  - 1000 mm
  - 1500 mm
  - special lengths may be available on request
- Treatment of bearings for abrasive materials

**ELECTRONIC CONTROLLER UNITS FOR PV 100**

- Range of viscosity, shear rate (can be programmed for 3 stages) and limiting values pre-set
- Temperature compensation of viscosity reading
- Fault detection
- Trend indication

**SPECIFICATIONS**

- **Viscosity:** 2 to 1x10³ mPa·s
- **Shear Rate:** 1x10⁻³ to 1x10³ s⁻¹
- **Shear Stress:** 2-100 Pa
- **Temperature:** -25°C to +300°C
- **Accuracy:** ±2.5% of range in use
- **Power Supply:** 24VDC
- **Maximum Pressure:** 6.4 MPa (930 psi)
- **Output Signal:** 4-20 mA
- **Special Accessories:** PT100 temperature sensor, switching power-supply, display, printer regulator, valves