

Product Overview

The MDS-6300A Online Viscometer is designed for real-time monitoring and control of liquid viscosity in industrial production processes. The instrument operates based on the principle of vibration, measuring viscosity by detecting the amplitude change of a cone in the liquid. It is equipped with a temperature compensation function to enhance measurement stability.

This viscometer is primarily used for in-line viscosity measurement in chemical industry applications such as paints, crude oil, dairy products, and adhesives. The design supports multiple installation methods, including pipeline mounting and tank side-mounting, with flange or clamp connections to accommodate various process conditions. The product provides 4-20 mA signal output and RS485 communication, enabling remote data transmission and system integration.

Users can perform on-site parameter configuration and commissioning via the instrument's built-in keypad and menu, including range, units, measured value fine-tuning, and damping adjustment, ensuring ease of operation. The instrument features a rugged construction, with the wetted parts made of stainless steel, making it suitable for general industrial media environments. During installation, care should be taken to avoid interference factors such as vibration, air bubbles, and medium crystallization, to ensure long-term stable operation.



Features

1. With 4-wire transmitter with 4–20 mA output and RS485 Modbus RTU communication
2. Viscosity display range: 0–1000 (with 1 or 2 decimal places); real-time temperature indication
3. On-site parameter configuration and commissioning via the instrument's built-in menu for easy operation
4. Measured value fine-tuning and temperature compensation function
5. Real-time in-line measurement, suitable for direct use in process control
6. Wetted materials customizable upon request

Specification

Parameter	Description
Signal Mode	4-wire
Output Signal	4–20 mA (active output) / RS485 communication
Power Supply	24 VDC (external resistive components or PLC in series not permitted)
Viscosity Range	0–50,000 mPa·s, calibratable to a specific measurement range depending on application
Viscosity Accuracy	1%; Resolution: 0.1; Repeatability: 1
Operating Pressure	<1 MPa
Medium Temperature	0–60°C (liquid); Ambient Temperature: –40 to 85°C
Electrical Connection	M20 × 1.5
Process Connection	Various flange and clamp types
Wetted Parts	316L stainless steel; special materials available upon request

Thanks for your business!