

BROOKFIELD AMETEK PROCESS VISCOMETERS

AST-102FTSY™ Viscometer

in-line viscosity control for increased production at lower costs

**Compliant to 3A
sanitary standards**

No moving parts to wear, bind or contact process materials

No narrow gaps to trap product

Simple clean-in-place design complies with 3A standard

Rugged 316L stainless steel construction

**Continuous, reliable
4-20 mA, RS232 or
RS485 output**



Model AST-330SY™ Viscosity Controller (optional)

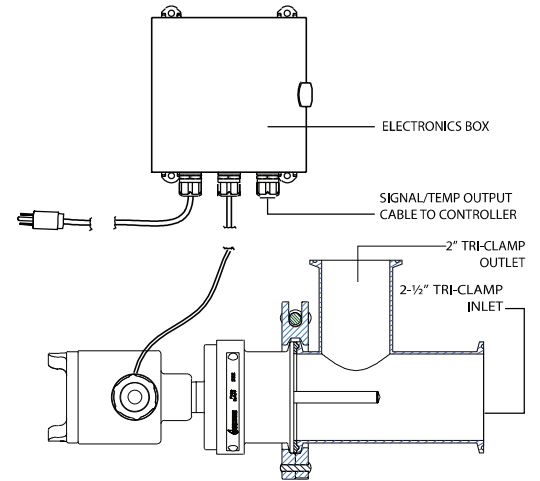
PLC based single station controller allows operator interface and modification. Various screen options include active bar graph and time adjustable trend history graphs.

The Model AST-102FTSY fully complies with 3A sanitary standards and has FDA approved components for contact with food. While ideal for food and dairy applications, it can also be used in applications that require improved cleanability.

AST-102FTSY Viscosity Sensor Specifications

Measurement Type:	Torsionally oscillating probe
Measurement Range:	1 to 3,000 (optional 12,000) cSt using an NIST traceable, Newtonian fluid measured at 25°C
Process Connections:	2½" tri-clamp 3-A design inlet, 2" tri-clamp outlet
Repeatability:	± 1.0% of reading
Wetted Surfaces:	316L stainless steel
Sensor O-Ring:	Kalrez for probe, Teflon for chamber housing; both seals are FDA compliant
Temperature (fluid):	-20° to 200°C (-4° to 392°F)
Pressure:	Up to 200 psi (13.6 bar)

AST-102FTSY Diagram



AST-102FTSY Transmitter Specifications

Viscosity Ranges (cSt) (field selectable):	0 to 10 • 0 to 50 • 0 to 100 • 0 to 250 • 0 to 500 • 0 to 1,000 • 0 to 1,500 • 0 to 2,000 • 0 to 3,300 • 0 to 12,000
Maximum Resolution:	Analog: ± 0.05% of full scale Digital: ± 0.01 cSt
Analog Output (2):	4—20 mA (non-isolated) CH1 = viscosity CH2 = temperature
Serial Port (2):	Port 1 = RS232, simplex, read only, Port 2 = ½ Duplex RS485, Modbus RTU driver
Electronics Packaging:	Wall mount, NEMA-4 (IP65), 8" x 8" x 6" (203 x 203 x 152mm)
Ambient Temp Range:	0 to 40°C (32 to 104°F)
Electrical Area Rating:	NEMA-4
Interconnecting Cable:	25 ft (7.6m) standard: 50 ft (15.2m) and 75 ft (22.8m) optional
Supply Voltage:	115 VAC, 230 VAC or 24 VDC

