

#### Your process viscosity measurement solution

- Proven in many applications and installations
- Torsionally vibrating sensor, no wearing parts
- Rugged, virtually no maintenance
- In-line viscosity measurement
- No cooling required

# Viscotronics Co., Ltd.





The ViscoTron sensor series VP-3000 has been developed employing experience gained over more than 30 years of applying, developing and manufacturing torsional motion viscometers. The development has been significantly influenced by customer experience and input.

Innovative assembly allows the series VP-3000 sensor to be manufactured to match customer application requirements by using any length or shape of

extension. Modern manufacturing methods like LASER welding ensure homogeneity of the material at critical iunctions.

The series VP-3000 is available in versions to measure very low, low, medium, high or extra high viscosities. Sensors can be constructed for pressures up to 27 MPa (4,000 psi) and temperatures up to 450°C

(840°F). Factory calibration with Newtonian ASTM traceable fluids over multiple decades is optional. The sensor can also be customer calibrated using the VT-IRFT transmitters.

This new generation of sensors incorporates features to make them more flexible and easier to work with during installation, start-up and operation. They are designed to be adaptable to changing customer needs, without having to reconstruct the entire sensor. The sensors are gravity independent and can be mounted in any direction.

The viscometer creates a shear wave by torsionally resonating the sensor. The drag on the twisting motion is a measure of the viscosity. The system is factory checked for functionality or factory calibrated using NIST traceable fluids. Speed or direction of flow have no influence on the measurement.

The resonant frequency is dependent on the mechanical construction of the sensor and typically between 120 and 400 Hz. The resonant frequency and

> therefore shear rate can be manipulated at the factory to be similar for multiple sensors. The fast enough to be resistant to outside mechanical vibrations, yet low enough to provide excellent sensitivity and resolution for newtonian and non-

microscopic motion is newtonian fluids.

The sensor shown in the picture on the left has been designed for high viscosities and low pressures. The length of the neck is designed to eliminate air cooling requirements of the sensor housing. Eliminating air cooling lowers operating cost and eliminates temperature variations by cooling the housing.

Using ViscoTron VT-IRFT induced resonance transmitters, the cable length between the transmitter and sensor can be changed in the field without influencing the calibration.

VP-3000H/2-STE-D59-0N-111



Description	VP-3000LL	VP-3000L	VP-3000M	VP-3000H	VP-3000X
<b>Measurement range</b> (mPa·s x g/cm³)	0.00 to 500	0.00 to 2,500	0.0 to 25,000	0 to 250,000	0 to 5,000,000
			ed above are a guid ments, sensor dime		
Calibration	Cable lengh inc to 4 decades	dependent factory s within the meas	ned at low and hig calibration with N urement range. Th ments. See the co	lewtonian fluids is us the calibrated	available for up range can be
Repeatability			0.5%		
Accuracy	1% or ±1 d	ligit, whichever is	greater (factory ca	alibrated with NIS	T standards)
Resonant frequency		Typically 120	to 400 Hz (depend	lent on design)	
Shear rate	Тур	ically between 750	0 and 2,500 sec <sup>-1</sup>	(dependent on de	esign)
Sensor length	120 to	190 mm, depend	lent on range and	installation requir	rements
Maximum	М	TE	< 175°C	: / 350°F	65 mm riser
process temperatures	S	TE	< 350°C	:/660°F	125 mm riser
with external transmitter	H	TE	< 450°C	: / 840°F	225 mm riser
Maximum	L	ΤI	< 100°C	C / 210°F	65 mm riser
process temperatures	N	ITI	<175°C	:/350°F	125 mm riser
with internal transmitter	S	iTI	< 350°C	C / 660°F	225 mm riser
Housing			IP65		
		SUS	316L (1.4571) star	ndard	
Wetted parts		optional	ly Hastelloy, Duple	ex, Monel	
	PTFE I	ow friction or othe	er corrosion resist	ant coatings up to	o 300°C
Process connection			s according to inst	·	
	(max	ximum pressure c	apability of sensor	r: 27 MPa / 4,000	psig)
NAE		· ·	the fluid flow of a		
(Non-active extension)			′ 1.875", Length =	•	
,	NAE available ir	n other diameters,	lengths and spec	cial shapes (max l	ength 1,000 mm
Cable length	500 met	ters maximum bet	ween sensor and	transmitter (10 O	hm max.)
Hazardous area approval (optional)		IE	Intrinsically Safe CEx, CSA, CSA /	UL	
Process temperature			ng from NAE, serv	•	
measurement			000 internal to se		
(optional)	Two P	T1000, one inside	sensor bulb plus	one extending fro	om NAE



										<b>2 3 3 3 3 3 3 3 3 3 3</b>
			sor type			x g/cm <sup>3</sup>				
VP-3000LL			osity		0 to 50					ximum viscosity:
VP-3000L					0 to 2,					ximum viscosity:
VP-3000M			ity		0 to 25					ximum viscosity:
VP-3000H					0 to 25	0,000				ximum viscosity:
VP-3000X					0 to 5,0	000,000		Require	ed max	ximum viscosity:
		Calibra	_							
	0	Function	onality ch	eck only	, no fac	tory calil	oration			
	1	1 deca	de calibra	ation wit	hin rang	ge capab	ility	(examp	le VP-3	3000L: 100 to 1,000 mPa.s x gr/cm <sup>3</sup> )
	2	2 deca	de calibra	ation wit	hin rang	je capab	ility	(examp	le VP-3	3000L: 10.0 to 1,000 mPa.s x gr/cm <sup>3</sup> )
	3	3 deca	de calibra	ation wit	hin rang	je capab	oility	(examp	le VP-3	3000H: 100 to 100,000 mPa.s x gr/cm³)
	4		de calibra				-			3000X: 100 to 1,000,000 mPa.s x gr/cm³)
		_	Proces					(3 3		, , , , , , , , , , , , , , , , , , ,
		MTE				es 65 r	nm riser)	use witl	h exter	nal transmitter
		STE			•					rnal transmitter
		HTE			•					nal transmitter
		LTI					nm riser)			ansmitter
		STI			•					ansmitter
		HTI					ıııı rıser)	C/W Inte	andı tr	ansmitter
	4			Proces 3" 300#		ection	ACME	Elongs		
	"		A1				ASME I			
			A2	3" 150#			ASME			
			A3	3" 600#			ASME I			
			A4	4" 300#			ASME			
			<b>A</b> 5	2" 150#	‡		ASME			
			Т6	3"			Tri-Clar	•		
			A7	4" 600	#		ASME I	Flange		
			<b>A9</b>	Others	on requ	est				
	- 1			Code	Non-A	ctive-E	ktension	(NAE)		Required Length
	- 1			0	None					
	- 1			1	Ø 48 m	nm x 15	50 mm m	ax		Length in mm:
	- 1			2	Ø 48 m	nm x 30	00 mm m	ax		Length in mm:
	- 1			3	Ø 48 m	nm x 50	00 mm m	ax		Length in mm:
	- 1			9	Specia	l shapes	s, lengths	and size	es on re	equest (max length 1,000 mm)
	- 1						ation typ			
	- 1				0		al purpos			(no safety barriers
					1		cally safe		for visc	
	- 1				2					cosity and one temperature sensor
					3					cosity and two temperature sensors
			-				Agenc			The state of the s
	_					N				pose area
						ì		Ex ia IIB		
						C		JL Class		
	3	NIL.					_			materials for wetted parts
							1	SUS31		materials for wetted parts
	2	1111					2			on coating
	2	N. P.								
	<u></u> ₹						3	Hastelle		
	2						4	Duplex		
	_1						9			r coating or material on request
_			(7)							ess temperature measurement
								0		mperature measurement or PT1000 by user
								1		00 extending from NAE, serviceable in place
								2	_	00 internal to sensor
		1						3		PT1000's placed as in option 1 and 2
	1							9	Other	s on request
										e Housing
		1 8							1	Powder coated
\	0000\//		0.01404						2	Polished Stainless Steel
VP-	3000X/2	2-STE-A99	9-31-137						3	Others on request
٨	^	^	^	٨	^	٨	^	^		Striore on request
VP-3000M	2	STI	A1	1	0	N	1	1	1	<b>EXAMPLE ORDERING INFORMATION</b>
3000										

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VP-3000	VicesT	war aan	2011		mDo o	w er/o.m.3			
VP-3000LL		ron sens			0 to 50	x g/cm³		Poquir	red maximum viscosity:
			Sity						·
VP-3000L					0 to 2,5				red maximum viscosity:
VP-3000M			ity		0 to 25				red maximum viscosity:
VP-3000H					0 to 25				red maximum viscosity:
VP-3000X					0 to 5,0	000,000	_	Requir	red maximum viscosity:
		Calibra							
	0	Functio	nality ch	eck only	, no fact	tory calib	oration		
	1	1 decad	de calibra	ation wit	hin rang	e capab	ility	(examp	ole VP-3000L: 100 to 1,000 mPa.s x gr/cm <sup>3</sup> )
	2	2 decad	de calibra	ation wit	hin rang	e capab	ility	(examp	ole VP-3000L: 10.0 to 1,000 mPa.s x gr/cm <sup>3</sup> )
	3	3 decad	de calibra	ation wit	hin rang	e capab	ility	(examp	ole VP-3000H: 100 to 100,000 mPa.s x gr/cm <sup>3</sup> )
	4		de calibra						ole VP-3000X: 100 to 1,000,000 mPa.s x gr/cm³)
			Proces					(	,
		MTE				es 65 n	nm riser)	use wit	th external transmitter
		STE			•		nm riser)		th external transmitter
		HTE			•		nm riser)		th external transmitter
		LTI			•		nm riser)		ernal transmitter
		STI			•				
					•		nm riser)		ernal transmitter
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				Proces		_	DIVIE		
			D1		N25/40		DIN Fla		
			D2	DN80 F			DIN Fla		
			D3	DN80 F		_	DIN Fla	_	
			D4		PN25/4	0	DIN Fla		
			D5	DN50 F	PN16		DIN Fla		
			D6	DN80			Variven	t Flange	9
			D7	DN100	PN64		DIN Fla	nge	
			D9	Others	on requ	est			
				Code	Non-A	ctive-Ex	tension	(NAE)	Required Length
				0	None				
				1	Ø 48 m	nm x 15	0 mm m	ax	Length in mm:
				2	Ø 48 m	nm x 30	00 mm m	ax	Length in mm:
				3	Ø 48 m	nm x 50	00 mm m	ax	Length in mm:
				9	Specia	Lshanes	lengths	and aire	es on request (max length 1,000 mm)
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									es on request (max length 1,000 mm)
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			TE-A91-		Code 0 1 2 3	Installa Genera Intrinsi Intrinsi Code N I C	ation typal purpos cally safe cally safe cally safe cally safe Agency None, f IECEX I Code 1 2 3 4 9	e e e sensor e sensor y approvor gener Ex ia IIB JL Class Coatin SUS31 PTFE lo Hastelle Duplex Special Code 0 1 2 3 9	(no safety barriers) If for viscosity If for viscosity and one temperature sensor If for viscosity and two temperature sensors If for viscosity and two temperature If for viscosity and two temperature If for viscosity and one temperature sensor If for viscosity and two temperature sensor If for viscosity and one temperature sensor If for viscosity and two temperature sensor If for viscosity and one temperature sensor If for viscosity and two temperature sens
^	VP-30	000X/2-S	TE-A91-	2l-111 ^	Code 0 1 2 3	Installa Genera Intrinsi Intrinsi Intrinsi Code N I C	ation typ al purpos cally safe cally safe cally safe (Agency None, f IECEx I CSA / U Code 1 2 3 4	e sensor sensor y approvor generation in IIIB JL Class Coatin SUS31 PTFE lo Hastelle Duplex Special Code 0 1 2 3 9	(no safety barriers) If for viscosity If for viscosity and one temperature sensor If for viscosity and two temperature sensors If for viscosity and two temperature If for viscosity and two temperature If for viscosity and two temperature If for viscosity and one temperature sensor If for viscosity and two temperature sens
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## Approval and Application Examples



IECEx Approval for < VP-1000 and VP-3000 series transducers



**Polymers Batch Resins** Silicone **Emulsions** Crude Oil **Blending Black Liquor Ceramics** Additives **Slurries Coatings Spray Driers Food Industry Creams** Cheese Milk Powder

- ^ Continuous polymer production @ 280 C, no air cooling required
- < Continuous polymer production

### **Compatible Transmitters**

For more info see the transmitter brochure



ViscoTron VT-IRFTx-TFTTP Induced Resonance FFT transmitter (DIN Rail / Wall mount enclosure)



ViscoTron VT-IRFTi-TFTTP
Induced Resonance FFT transmitter
(Panel mount enclosure)

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CUSTOMER DRIVEN, PERFORMANCE PROVEN

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