

VTP10-H HART® POSITION TRANSMITTER



- ✓ HART[®] 7 Communication Protocol
- ✓ 4-20 mA NAMUR NE 43 Analog Output
- ✓ No Polarity 12 to 45 Vdc Power Supply
- ✓ Working Range Configuration
- ✓ Operation Limit Alerts
- ✓ No Mechanical Contact Magnetic Sensor
- ✓ 5-digit, Rotative, Multifunctional LCD with Bargraph
- ✓ Preditive Maintenance Diagnosis
- ✓ Position Histogram
- ✓ Configurable Measurement Unit
- ✓ Operating Temperature -40 to 185 °F
- ✓ Support to EDDL and FDT/DTM Programmers/Tools

DESCRIPTION

HART[®] position transmitter **VTP10-H** integrates *Vivace Process Instruments* field device family, being developed to monitor linear and rotative length systems, such as valve actuators.

The transmitter can be powered by a 12 to 45 Vdc power supply, generating a 4-20 mA current channel (according to NAMUR NE43 standard), proportional to measured PV. Its main function is to calculate the correct position of installed system, according to user configuration and calibration, exporting this value through digital communication and analog signal (4-20 mA current).

The measurement sensor used on VTP10-H has no mechanical contact with the installed system whats so ever, since it works on magnetic field effect, which guarantees high precision and immunity to mechanical variations. Easy to install and to initialize, the transmitter also measures ambient temperature and executes several diagnostics for system preditive maintenance, such as reversal, strokes and mileage counters, and position histogram.

Configuration uses HART[®] 7 communication protocol, already established on the world of industrial automation, via Android or EDDL and FDT/DTM tools to configure measurement scales, work units and calibration, also monitoring the measuring values e device status. User can also execute configurations via local adjustment using a magnetic screwdriver.

CONNECTION

TECHNICAL AND PHYSICAL SPECIFICATIONS

Precision	$\pm 0.05\%$ (Full Scale, not considering non-linearity and hysteresis effects).			
Power Supply/Current Output	12 to 45 Vdc / 4-20 mA according to NAMUR-NE43			
Communication Protocol	HART® 7			
Classified Areas	Explosion Proof and Intrinsically Safe			
Environment Temperature Limits	- 40 to 85°C			
Configuration	Local Adjust, EDDL, FDT/DTM, PALM and Android® Tools			
Indication	5-digit, rotative, multifunctional LCD display.			
Mounting	On field, with bracket for 2" tube.			
	Remote sensor mounting is optional.			
Measurement	Hall Effect Magnetic Sensor.			
	Linear: 0 to 100 mm / Rotative: 0° to 120° (minimum span 10 mm or 5°)			
Protection Degree	IP67			
Housing Material	Aluminum			
Weight without Bracket	1.5 Kg			

ORDERING CODE



VTP10 Position Transmitter

Communication Protocol	H HA P PR	rt Ofib	US					
SensorType	0 1 2 3	REI REI	andar Mote Mote Mote	05 M 10 M				
MovementType		0 1 2 3	LINE	TATIN EAR 0 EAR 4 EAR 7	- 40 0 - 7(MM	Л	
Certification Type			0 1 2	INT	RINS	ICAL	ATIO LY SA PROO	FE
Certification Body				0) CEF Metf		CATION
HousingMaterial					A	AL	UMIN	UM
Electrical Connection						1	1/2 -	– 14 NPT
Painting							1	BLUE – RAL 5005
MountingBracket								0 NO BRACKET 1 SS 304 BRACKET 2 ROTATIVE VDI/VDE NAMUR
Ordering Code Example:								
VTP10-	H - 0	0	0	0	Α	1	1	0

*Explosion Proof Certification Ex tb (dust ignition) and Ex db (flame)