

VTP10-P

PROFIBUS-PA POSITION TRANSMITTER



- ✓ Profibus-PA Communication Protocol
- ✓ No Polarity 9 to 32 Vdc Power Supply
- ✓ Analog Input (AI) and Totalizer (TOT) Functional Blocks
- ✓ Magnetic Sensor with no Mechanical Contact
- ✓ 5-digit, rotative, multi-function LCD including bargraph
- ✓ Predictive Maintenance Diagnosis
- ✓ Position Histogram
- ✓ Configurable Measurement Unit
- ✓ Operating Temperature -40 to 85 °C
- ✓ Support to EDDL and FDT/DTM Programmers/Tools

DESCRIPTION

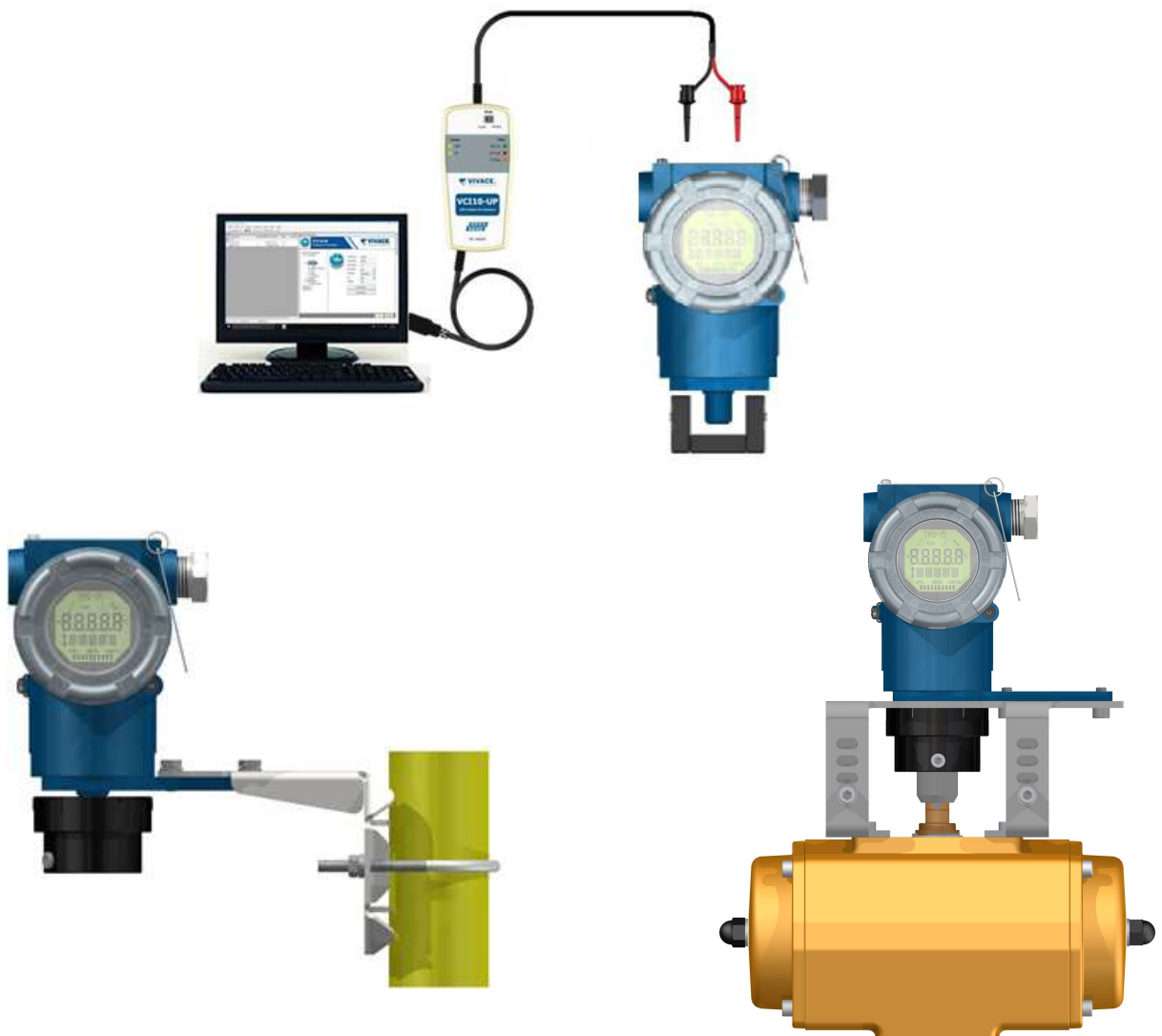
Profibus-PA position transmitter **VTP10-P** integrates *Vivace Process Instruments* field device family, being developed to monitor linear and rotative length systems, such as valve actuators.

The transmitter can be powered by a 9 to 32 Vdc power supply, using Profibus-PA protocol to configuration, calibration, monitoring and diagnostics. VTP10-P generates a position proportional value and exports it through Analog Input Block (AI) to Profibus-PA systems, allowing movement totalization through Totalizer Block (TOT).

The measurement sensor used on VTP10-P has no mechanical contact with the installed system what's 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 predictive maintenance, such as reversal, strokes and mileage counters, and position histogram.

The configuration uses Profibus-PA communication protocol, 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 configuratons via local adjustment using a magnetic screwdriver.

INSTALLATION EXAMPLES



TECHNICAL AND PHYSICAL SPECIFICATIONS

Precision	±0.05% (Full Scale, not considering non-linearity and hysteresis effects).
Power Supply / Quiescent Current	No polarity, 9 to 32 Vdc / 12 mA
Communication Protocol / Functional Blocks	Profibus PA, according to IEC 61158-2 (H1), voltage mode 31.25 Kbits/s bus powered / 2 Functional Blocks: Analog Input (AI) and Totalizer (TOT).
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	HART
	P	PROFIBUS
Sensor Type	0	STANDARD
	1	REMOTE 05 METERS
	2	REMOTE 10 METERS
	3	REMOTE 20 METERS
Magnet for Actuator Course	0	ROTATIVE (30 TO 120 DEGREES)
	1	LINEAR (COURSE < 30 mm)
	2	LINEAR (30 mm < COURSE < 70 mm)
	3	LINEAR (70 mm < COURSE < 100 mm)
	4	LINEAR (100 mm < COURSE < 150 mm)
	A	NO MAGNET
Certification Type	0	NO CERTIFICATION
	1	INTRINSICALLY SAFE
	2	EXPLOSION PROOF
Certification Body	0	NO CERTIFICATION
	1	INMETRO
Housing Material	A	ALUMINUM
	I	INOX
Electrical Connection	1	1/2 - 14 NPT
Painting	0	NO PAINTING
	1	BLUE - RAL 5005
	2	BLUE - PETROBRÁS
Mounting Bracket	0	NO BRACKET
	1	INOX 304 BRACKET
	2	VDI/DE ROTATIVE NAMUR
	3	UNIVERSAL LINEAR BRACKET

Ordering Code Example:

VTP10 - H 0 A 0 0 A 1 1 0

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