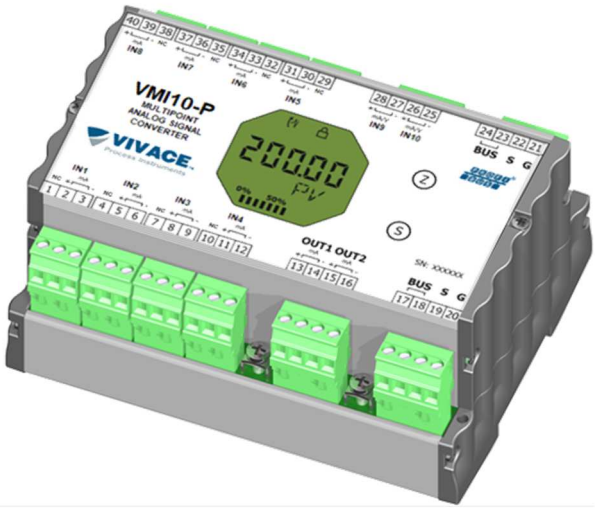
VIVACE™
Process Instruments
Exceeding Automation Limits

VMI10-P

PROFIBUS-PA MULTIPOINT ANALOG SIGNAL CONVERTER



- ✓ **Multipoint Analog Signal Converter**
  8 Analog Inputs (4-20mA)
  2 Analog Inputs (4-20mA ou 0-5Vdc)
  2 Analog Outputs 4 – 20 mA
- ✓ **5 Digit Digital Rotary LCD Display with Bargraph**
- ✓ **Communication Protocol Profibus-PA**
- ✓ **Address Change via software**
- ✓ **Function Blocks**
  10 Input Blocks (AI)
  02 Output Blocks (AO)
- ✓ **Galvanic insulation, 1.5 kVAC**
- ✓ **Power without Polarity**
  12 mA Quiescent Current
- ✓ **Operating Temperature -20 to 70 °C**
- ✓ **Local Adjustment via Magnetic key**
- ✓ **Configuration, Calibration, Monitoring and Diagnostics via EDDL and FDT / DTM**

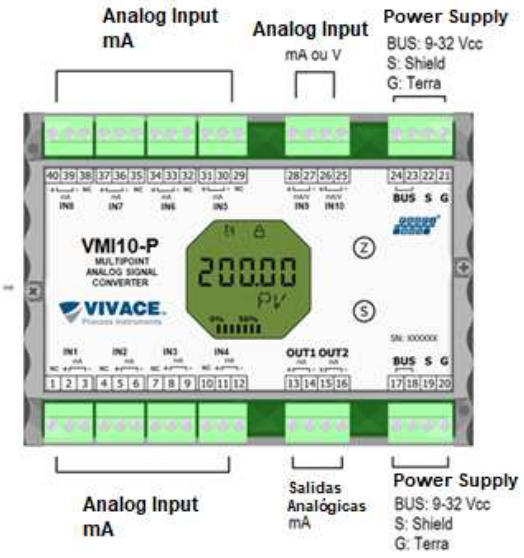
DESCRIPTION

The VMI10-P, analog signal multipoint converter, is part of the Profibus PA family of Vivace Process Instruments, designed for installation in the field or panel with DIN rail. Its flexibly meets the integration of input and output signals in Profibus PA networks.

The converter is powered by a voltage of 9 to 32 Vdc and it has eight inputs for 4-20mA signals, two analog inputs (voltage: 0-5 Vdc or current: 4-20 mA), configured by the user. In addition, two 4-20 mA analog outputs are available for actuation on final control elements, such as valve positioners.

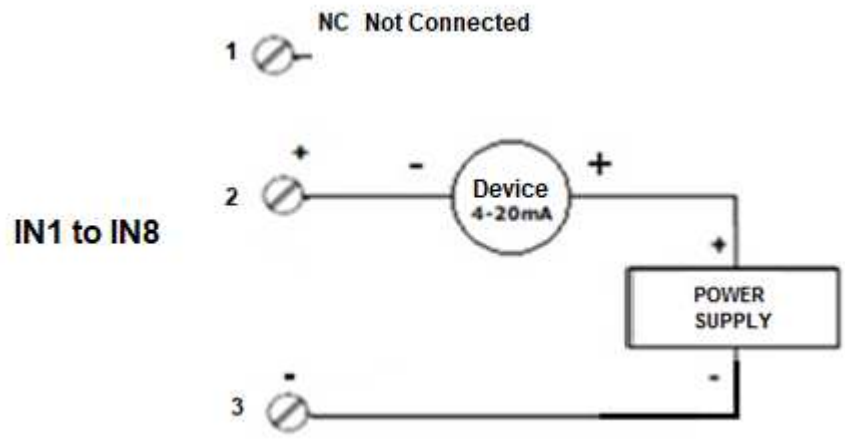
Through a Profibus-PA configurator, the user can configure the converter parameters, the inputs and outputs, and verify calibration, diagnostics and monitoring of the converter. In addition, it is possible to configure the VMI10-P via local adjustment using a magnetic key.

The converter is connected to the Profibus-DP network via a DP / PA coupler using a pair of twisted and shielded wires. The Profibus-PA technology allows the interconnection of several devices in a single network, allowing the construction of large control systems. The VMI10-P works with the concept of functional blocks such as Analog Input, Analog Output and Transducer.



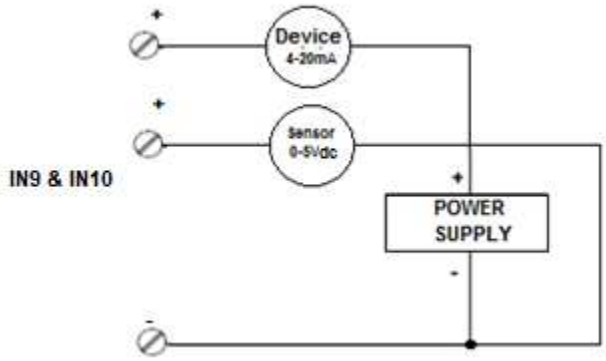
4-20mA ANALOG INPUTS (IN1 to IN8)

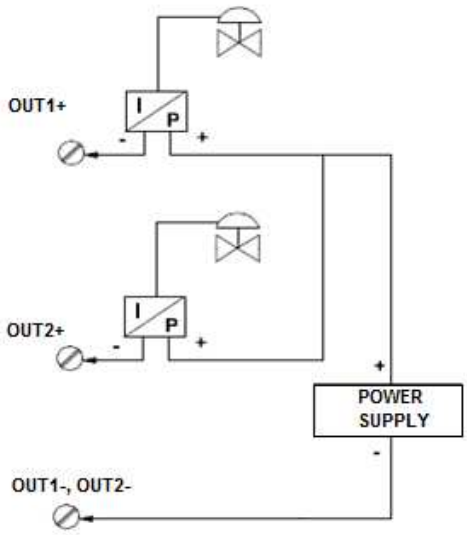
4-20 mA input connections using 4-20 mA device or current generator



Analog Input (mA)	TERMINALS		
	NC	+	-
IN1	1	2	3
IN2	4	5	6
IN3	7	8	9
IN4	*10*	*11*	*12*
IN5	29	30	31
IN6	*32*	*33*	*34*
IN7	*35*	*36*	*37*
IN8	*38*	*39*	*40*

ANALOG INPUT AND OUTPUT CONNECTION





TECHNICAL AND PHYSICAL SPECIFICATIONS

Accuracy	Inputs / Outputs: ± 0.1% Span calibrated
Supply Voltage / Quiescent Current Output Load Limit	9 to 32 Vdc, without polarity / 12 mA Output signals 4-20mA: External Output Voltage 3-45 Vdc.
Protocol of Communication	Profibus-PA, according to IEC 61158-2
Certification in Hazardous Area	Explosion-proof and Intrinsically Safe (pending)
Ambient Temperature Limits	-20 to 70°C
Configuration / Function Blocks	Remote configuration through tools based on EDDL or FDT / DTM. Local configuration via magnetic key. 10 Analog Input Blocks (AI) 2 Analog Output Blocks (AO)
Mounting	In field or panel, using DIN rail
Degree of Protection	IP20
Type of Electrical Insulation (between Profibus-PA bus, inputs and outputs)	Galvanic Isolation, 1,5 kVac
Housing Material	Aluminum / Plastic
Approximate weight	540 g

ORDERING CODE

VMI10 ***Multipoint Analog Signal Converter***

Communication Protocol	P	PROFIBUS
Certification Type	0	NO CERTIFICATION
	1	INTRINSICALLY SAFE
	2	EXPLOSION PROOF
Certification Body	0	NO CERTIFICATION
	1	CEPEL
	2	FM
	3	EXAM
Protection Housing	0	NO HOUSING
	1	IP67 HOUSING

Ordering Code Example:

VMI10	**P-**	**0**	**0**	**0**