

Programmable AC Current/ Voltage Transducer

- PDA Current Transducer
- PDV Voltage Transducer



True RMS



Aux. Supply



Long Term
Stability



Galvanic
Isolation



Mounting

Available In Class 0.2 Accuracy



PDV



PDA

The Masibus PDA / PDV is used to measure and convert AC current or voltage input into a load independent DC current or voltage output signal. Output signal generated is proportional to the root mean square value of the input current or voltage.

It is equipped with two load-independent, galvanically-isolated analogue outputs that can be configured for different input range and output curves.

AC transducer offers an economical and accurate means of current & voltage measurement on systems where transducers are calibrated to true RMS measurement.

AC transducers are having its application to interface with RTUs. Masibus make transducers are also available with dual output option. It provides accuracy class 0.2 with up to 3 KV isolation.

All transducers performs with exceptional accuracy, repeatability and reliability. In addition to being most accurate, our transducers are equally preferred by OEMs/ end users to other makes for their excellent stability over a long period of operation. This world class technology now comes to you at a very competitive price.

Features

- High accuracy class 0.2
- Confirms to IEC 60688
- True RMS measurement
- Long range, site-configurable inputs & outputs
- Onsite selectable output type (DC current / DC voltage)
- Load-independent accuracy on all outputs
- Available in single or dual output type
- Programming port for easy configuration
- Fast response
- Excellent long term stability
- Good isolation & impulse resistance
- Transient protected
- DIN-Rail mounting

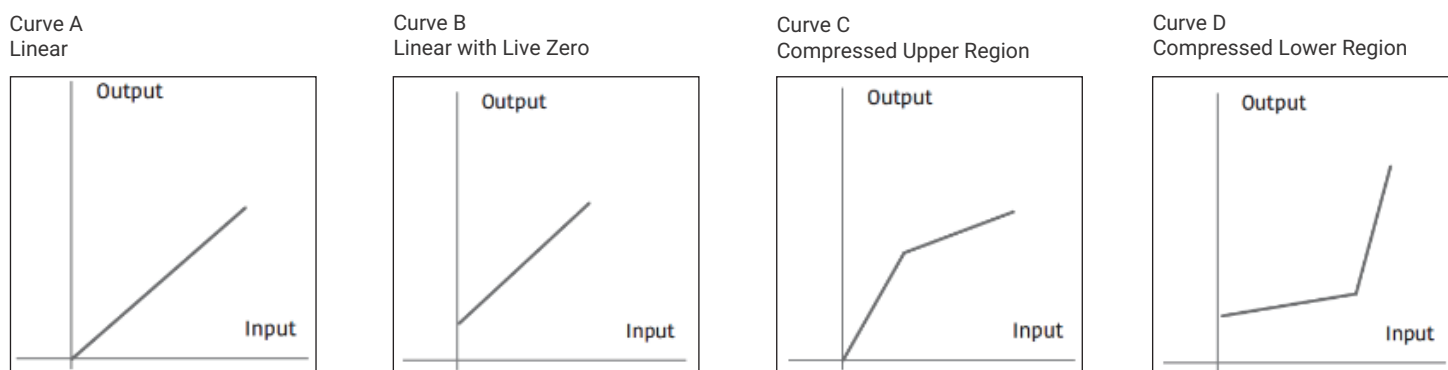
Applications

- Generating/transmission distribution stations
- Building management
- Load dispatch center
- Power equipment's OEMs
- HT/LT panels
- Substation automation
- SCADA
- Local and central monitoring systems

TECHNICAL SPECIFICATIONS: AC CURRENT/ VOLTAGE TRANSDUCER

Configuration		Single phase		Auxiliary Power Supply	
		Input			
AC Voltage				Power Supply	
Nominal Input (Un) (PT Secondary)	57.7 V to 415 V			Universal aux. supply : 85-265VAC, 50/60Hz or 100-300VDC	
Measuring Voltage Range	0 to 130 % Un			Burden : < 5.5VA (2.2W)	
Measurement Method	True RMS			DC aux. Supply : 20-60VDC	
Burden	<0.3VA at Un			Burden : < 2.2W	
PT Ratio	1 to 9999.999 programmable on site			Isolation (Withstanding Voltage)	
Maximum Overload Voltage	1.3 x Un continuously 2 x Un for 1 s, with up to 10 repetitions at 10 s intervals			Between primary terminals* and secondary terminals**: At least 3000 V AC for 1 minute	
				Between primary terminals*: At least 3000 V AC for 1 minute	
				Between secondary terminals**: At least 500 V AC for 1 minute	
				* Primary terminals indicate aux power terminals & input terminals.	
				** Secondary terminals indicate analog O/P-1 and analog O/P-2.	
				Insulation resistance: 200MΩ or more at 500 V DC between Input/Output/Power/ Case and grounding terminal	
AC Current				Environmental	
Nominal Input (In) (CT Secondary)	1A to 5A			Operating Temperature	
Measuring Current Range	0 to 150 % In			Storage Temperature	
Measurement Method	True RMS			Relative Humidity	
Burden	<0.2VA at In			Warm up Time	
CT Ratio	1 to 9999.999 programmable on site			Installation Category	
Maximum Overload Current	2 x In continuously 20 x In for 1 s, with up to 10 repetitions at 100 s intervals			Protection Class	
Frequency	45 to 65Hz			Pollution Degree	
				Ingress Protection	
				Mechanical	
Analogue output				Mounting Type	
Accuracy Class	0.2			Dimension (in mm)	
No. of Outputs	2			Case Material	
Output Type	4-20mA, 0-20mA, 0-10V, 0-5V, 1-5V DC			Weight	
Maximum Load Resistance	≤750 Ω for 20 mA, ≥ 2 k Ω for 10 V (for each output)			Connector Type	
Response Time	<500mS			Conductor Size for Terminals ≤ 4 mm ²	
Ripple	<0.4% peak to peak			Communication Ports	
Usage Group	I			Mini USB type: For on-site configuration	
				Configuration Software Tool	
Standards compliance				mMFT	
Standards	Accuracy as per IEC 60688			For on-site configuration of measurement inputs, output and online parameter reading. It can be freely downloaded from www.masibus.com	

INPUT - OUTPUT SIGNAL CURVES



Ordering Code

Model	Auxiliary Power Supply	Analogue Output			
		Output Type-1		Output Type-2	
PDA	U1 85-265VAC, 50/60Hz or 100-300VDC	1	4-20mA	N	None
PDV	U2 20-60VDC	2	0-20mA	1	4-20mA
		3	0-5V	2	0-20mA
		4	1-5V	3	0-5V
		5	0-10V	4	1-5V
				5	0-10V

Cable Accessory (Extra Cost)

Part No.	Description
TT7SCC	Configuration cable