

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

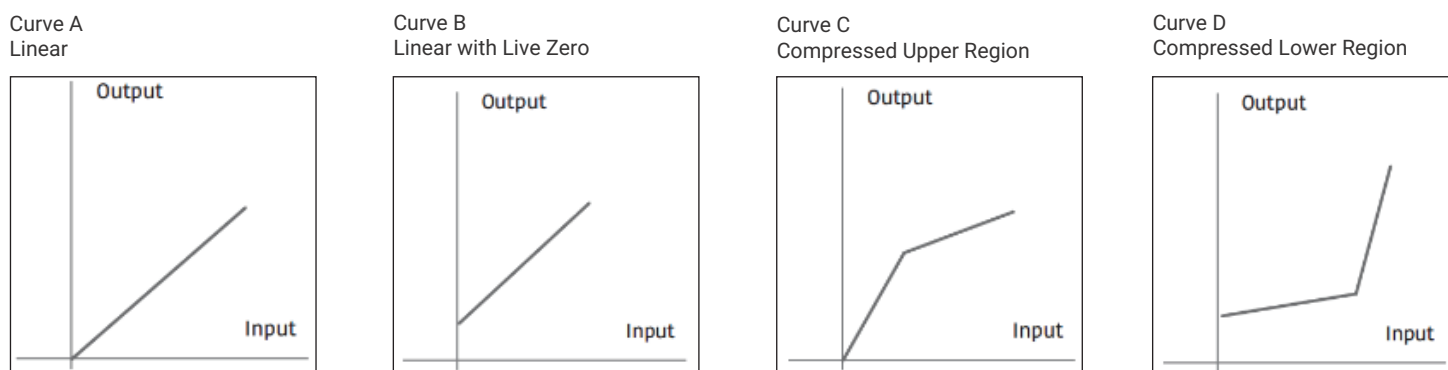
Applications

- 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	Power Supply Universal aux. supply : 85-265VAC, 50/60Hz or 100-300VDC Burden : < 5.5VA (2.2W) DC aux. Supply : 20-60VDC Burden : < 2.2W Isolation (Withstanding Voltage) 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 Voltage				
Nominal Input (Un) (PT Secondary)	57.7 V to 415 V			
Measuring Voltage Range	0 to 130 % Un			
Measurement Method	True RMS			
Burden	<0.3VA at Un			
PT Ratio	1 to 9999.999 programmable on site			
	1.3 x Un continuously			
Maximum Overload Voltage	2 x Un for 1 s, with up to 10 repetitions at 10 s intervals			
AC Current				
Nominal Input (In) (CT Secondary)	0 to 1A / 0 to 5A			
Measuring Current Range	0 to 150 % In			
Measurement Method	True RMS			
Burden	<0.2VA at In			
CT Ratio	1 to 9999.999 programmable on site			
	2 x In continuously			
Maximum Overload Current	20 x In for 1 s, with up to 10 repetitions at 100 s intervals			
Frequency	45 to 65Hz			
		Environmental		
		Operating Temperature	0 to +55°C	
		Storage Temperature	-40° to 85°C	
		Relative Humidity	25-95% non-condensing	
		Warm up Time	15 minutes	
		Installation Category	CAT III for < 300V AC	
		Protection Class	II	
		Pollution Degree	2	
		Ingress Protection	Housing : IP40, terminals : IP20	
		Mechanical		
		Mounting Type	DIN-Rail	
		Dimension (in mm)	71H x 61W x 112D	
		Case Material	ABS	
		Weight	0.4 Kg	
		Connector Type	Metal screw	
		Conductor Size for Terminals	≤ 4 mm ²	
		Communication Ports		
		Mini USB type: For on-site configuration		
		Configuration Software Tool		
		mMFT		
		For on-site configuration of measurement inputs, output and online parameter reading. It can be freely downloaded from www.masibus.com		
		Standards compliance		
Standards	Accuracy as per IEC 60688			

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