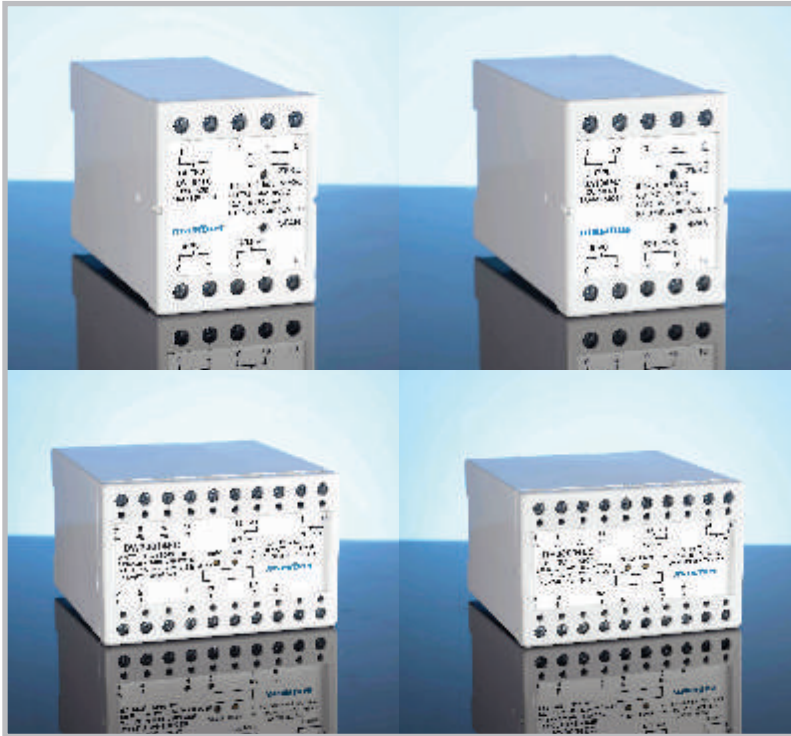


# AC Line Transducer



Masibus manufactures high quality power transducers of various types to help you manage and conserve electricity. All electrical parameters such as current, voltage, active power, reactive power, energy, frequency and power factor can be accurately measured. A corresponding linearized signal is then transmitted for various applications such as SCADA, S/S automation, energy measurement, remote indication, check metering etc.

Power transducer series offers an economical and accurate means of current & voltage measurement on systems where the waveform is a pure sine wave. Transducers are calibrated to true RMS value of the sine wave. They can also be used with distorted waveforms where high accuracy is not required.

AC line transducers are having its application to interface with RTUs. Masibus make current & voltage transducers are also available with dual output. Transducers are available in 1 $\emptyset$  / 3 $\emptyset$  versions. It provides accuracy up to 0.25% FS with up to 2 KV isolation. Hardware calibration is done through trim-pot.

Since 1994 Masibus has supplied power transducers to hundreds of utilities, industrial plants and commercial establishments all over the world. All transducers perform 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.

AC line transducers are available as current, voltage, frequency, power, power factor and energy in 1 $\emptyset$  / 3 $\emptyset$  configuration.

## Features

- *High accuracy class 0.25%*
- *Confirms to IEC 60688*
- *Power transducers for all requirements*
- *Excellent long term stability*
- *Low burden*
- *Transient protected*
- *Both 1-ph & 3-ph versions available*
- *Good isolation & impulse resistance*
- *Minimum ripple at the output*
- *Fast response*
- *Full power factor range operation*
- *ABS DIN rail mounting*

# AC Line Current/Voltage

## TECHNICAL SPECIFICATIONS CURRENT/VOLTAGE TRANSDUCER

### General specification

Temperature	0 to 55°C
Humidity	40-90% RH (non condensing)
Terminations	Metal Screw can accept up to 2.5 square mm wire
Mounting	DIN rail mounting
Case material	ABS, Light gray. (RAL 7035) with fireproofing finish
Case Size	Width-55 mm, Height-75 mm, Depth-110 mm (1Ø)
Circuit boards	Copper clad laminate FR-4 Grade epoxy glass
Connection	Power/ Input/ Output 1/ Output 2

### AC Current Transducers Specifications

Input Signal	0-5A, 0-1A, 0-2A.
Output Signal	0-1mA, 0-3mA, 0-5mA, 0-10mA, 4-20mA, 0-1V, 0-5V, 0-10V, 1-5V
Calibration	Zero & Span of output can be adjusted by Trim pots at the front
Loading	
For Current	See OUTPUT in Model Identification
For Voltage	See OUTPUT in Model Identification
Output Accuracy	±0.25% of full scale Output Ripple < 75mV Peak
Response Time	< 400 ms
Temp. Effect	Less than ±0.01% per °C
Isolation	2.0KV AC for one minute Input/Output/Power/Case
Input Burden	Input burden is 0.2 VA at full scale regardless of option
Weight	400 gms

### AC Voltage Transducers Specifications

Input Signal	0-150V, 0-90V, 0-300V, 0-450V
Output Signal	0-1mA, 0-3mA, 0-5mA, 0-10mA, 4-20mA, 0-100mV 0-1V, 0-5V, 0-10V, 1-5V
Calibration	Zero & Span of output can be adjusted by Trim pots at the front
Loading	
For Current	See OUTPUT in Model Identification
For Voltage	See OUTPUT in Model Identification
Output Accuracy	±0.25% of full scale Output Ripple < 75mV Peak
Response Time	< 400 ms
Temp. Effect	Less than ±0.01% per °C
Isolation	2.0KV AC for one minute Input/Output/Power/Case
Input Burden	Input burden is 0.6 VA at full scale regardless of option
Weight	400 gms

## TECHNICAL SPECIFICATIONS CURRENT/VOLTAGE TRANSDUCER

### Enclosure ABS DIN, Rail Mount

AC Current Transducer	DA
AC Voltage Transducer	DV

### Configuration

Single Phase	1
Three Phase*	3

### Input

Current	Voltage	
0-5A	0-150V	0
0-1A	0-90V	1
0-2A	0-300V	2
	0-450V	3

### Output

0-1mA	(0-10,000 Ohms)	0
0-3mA	(0-3,300 Ohms)	1
0-5mA	(0-2,000 Ohms)	2
0-10mA	(0-1,000 Ohms)	3
4-20mA	(0-750 Ohms)	4
0-1V	(180 Ohms minimum)	6
0-5V	(500 Ohms minimum)	7
0-10V	(1000 Ohms minimum)	8
1-5V	(500 Ohms minimum)	9
Special		X

### Aux power

110 VAC Aux Power	EC
230 VAC Aux Power	FC
DC Aux Power 24VDC	K1
DC Aux Power 48VDC	K2
DC Aux Power 125VDC	K3
DC Aux Power 220VDC	K4
Special	X

\* Self power only.

### NO. of Outputs

Single	Keep Blank
Dual	D

**For Example:** DA-104-FC-D is the ordering code for 1-phase AC current transducer in a DIN rail, with a 0-5A input, a 4-20mA dual output & 230 VAC aux power.

**NOTE:**

- Output code 4 & 9 and dual output is available only with 1-phase configuration.
- Output code 4 & 9 is & dual output available only with Aux supply option.



