

Texmate AC Transducers

- Voltage, Current & Frequency input
- Single phase & 3 phase models
- Average or TRMS sensing
- Direct connect up to 5A or 600V
- $\pm 0.2\%$ or $\pm 0.1\%$ accuracy
- Panel or DIN rail mounting



Texmate Transducers convert AC voltage, AC current and frequency signals to a DC value for easy readout or input to a SCADA system. Use these transducers with direct signals up to 5A or 600V. For higher signal levels, connect using a current transformer (CT) or potential transformer (PT). Both average and TRMS sensing models are available. TRMS sensing is recommended for input signals with distortion.

Two case styles provide mounting flexibility. The metal case versions with screw flanges easily attach to a plate or panel, Two plastic case sizes mount on a 35mm DIN rail. All Texmate transducers offer 2kV isolation and high immunity to external noise. Standard accuracy is $\pm 0.2\%$, with $\pm 0.1\%$ also available. In addition to the standard input/output ranges shown below, custom ranges can be special ordered.

SPECIFICATIONS

Accuracy:	$\pm 0.2\%$ of rated output standard (for 10-100% of rated output); $\pm 0.1\%$ on special order
Voltage Input:	
Burden:	$\leq 0.1VA$
Response:	$\leq 0.5\%$ of measuring range to max input
Input Overload:	1.25x rated input (600Vrms max) continuous, 2x for 10 sec, 4x for 5 sec
Current Input:	
Burden:	$\leq 0.2VA$
Response:	$\leq 0.5\%$ of measuring range to max input
Input Overload:	3x rated input continuous, 10x for 10 sec, 50x for 5 sec, 80x for 0.5 sec
Output:	DC mA or DC Volts
Ripple:	$< 0.5\%$ of rated output, peak-to-peak (max)
Response Time:	$< 400ms$ from 0 to 99% of output
Zero Adjust:	$\pm 5\%$ of rated output (min)
Span Adjust:	$\pm 10\%$ of rated output (min)
Load Resistance:	500 Ω max, except 10k Ω max for 0-1mA output
Operating Temperature:	0 to 50°C (32 to 122°F)
Humidity:	$< 95\%$ RH, non-condensing
Temp. Coefficient:	$\leq 100ppm/^{\circ}C$ of span $\leq 60ppm/^{\circ}C$ for ambient of 25°C $\pm 10^{\circ}C$
Isolation:	Between Input/Output/Power/Case
Dielectric Test:	2kVrms/1 min, terminal to terminal; (DIN-IEC 688) 2.8kVrms/1 min, terminal to case
Insulation Resistance:	$> 100M\Omega$ at 500V DC
Housing:	ABS resin (94V-0) or metal
Mounting:	Screw mount metal case or plastic DIN rail 35mm
Auxiliary Power:	AC: 115/230V $\pm 15\%$, 50/60Hz, 3VA DC: 24V $\pm 20\%$ or 125V $\pm 20\%$
Dimensions (Single phase V & A):	
Metal "A" Case*:	4.06"W x 4.84"H x 2.28"D (103x123x58mm)
Plastic "C" Case:	3.15"W x 2.36"H x 4.95"D (80x60x126mm)
Dimensions (3 phase & Frequency):	
Metal "B" Case*:	5.35"W x 5.55"H x 3.74"D (136x95x141mm)
Plastic "D" Case:	4.45"W x 3.74"H x 5.74"D (113x95x146mm)

*including mounting flanges

ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.

A **B** **C** **D** **E** **F**

Example: TA-1T11212

VOLTAGE TRANSDUCERS

A	Model	
	TV-1	Single phase, Average sensing
	TV-1T	Single phase, TRMS sensing
	TV-3	Three phase, Average sensing
	TV-3T	Three phase, TRMS sensing
B	Input	
	1	0-150V AC
	2	0-300V AC
	3	0-600V AC
C	Frequency	
	1	45-65Hz
	2	400Hz
D	Output	
	1	0 to 1mA DC
	2	4 to 20mA DC
	3	0 to 10V DC
E	Power	
	1	115/230V AC
	2	24V DC
	3	125V DC
F	Mounting	
	1	DIN rail plastic case
	2	Screw mount metal case

CURRENT TRANSDUCERS

A	Model	
	TA-1	Single phase, Average sensing
	TA-1T	Single phase, TRMS sensing
	TA-3	Three phase, Average sensing
	TA-3T	Three phase, TRMS sensing
B	Input	
	1	0-5A AC
	2	0-1A AC
C	Frequency	
	1	45-65Hz
	2	400Hz
D	Output	
	1	0 to 1mA DC
	2	4 to 20mA DC
	3	0 to 10V DC
E	Power	
	1	115/230V AC
	2	24V DC
	3	125V DC
F	Mounting	
	1	DIN rail plastic case
	2	Screw mount metal case

FREQUENCY TRANSDUCERS

A	Model	
	TF-1	Frequency
B	Input	
	1	80 to 600V AC
	2	2 to 30V AC
C	Frequency*	
	1	55-65Hz
	2	45-55Hz
D	Output	
	1	0 to 1mA DC
	2	4 to 20mA DC
	3	0 to 10V DC
E	Power	
	1	115/230V AC
	2	24V DC
	3	125V DC
F	Mounting	
	1	DIN rail plastic case
	2	Screw mount metal case

*400Hz on special order