

# Sifam Tinsley AC Transducers

**NEW**

## VOLTAGE & CURRENT TRANSDUCERS

- TRMS sensing
- Field programmable input range
- Single or dual output
- Direct connect up to 5A or 500V
- Accuracy class 0.2
- Wall or DIN rail mounting



Theta 20



## FREQUENCY TRANSDUCERS

- Programmable input range
- Single or dual output
- Selectable DC V or DC mA output
- Accuracy class 0.2
- RS-485 Modbus option
- Wall or DIN rail mounting



Theta Hz



## POWER TRANSDUCERS

- TRMS measurement of active power, reactive power, appparent power, power factor or phase angle
- Field programmable function
- Programmable V & I input ranges
- Single or dual output
- Selectable DC V or DC mA output
- Accuracy class 0.2 for power
- RS-485 Modbus option



Theta 30P



### SPECIFICATIONS

VOLTAGE & CURRENT TRANSDUCERS	
Current Input:	1-5A AC rms
CT Primary Range:	1 to 9999A
Input Burden:	<0.2VA at rated input current, nominal
Overload:	1.2x rated input continuous, 10x for 3s
Voltage Input:	57 to 500V L-L
PT Primary Range:	57V to 400kV L-L
Input Burden:	<0.6 VA at Vin, nominal
Overload:	1.2x rated input continuous, 2x for 1s; 300V max if powered from input
Frequency:	45-66Hz
Accuracy:	Class 0.2
Tempco:	±0.2%/10°C
DC Output:	V or mA selected via internal DIP switch
Ranges:	0-10V/0-20mA/4-20mA/0-1mA
Load Resistance:	I: <600Ω @24mA, <15kΩ @1mA; V: >5000Ω @10V
Response Time:	<400ms
Temperature:	0 to 45°C operating, <75% RH
Isolation:	5200VDC, input to power & outputs
Setup:	Thru front panel, RS-232 port using PBKAB601 cable, or RS-485 option
Dimensions:	66 x 44 x 107 mm (H x W X D)

FREQUENCY TRANSDUCERS	
Voltage Input:	100-500V
Frequency:	55-65/45-65/45-55 Hz
Accuracy:	Class 0.2
Tempco:	±0.2%/10°C
DC Output:	V or mA selected via internal DIP switch
Ranges:	0-10V/0-20mA/4-20mA/0-1mA
Load Resistance:	I: <600Ω @24mA, <15kΩ @1mA; V: >5000Ω @10V
Response Time:	<400ms
Temperature:	0 to 45°C operating, <75% RH
Isolation:	5200VDC, input to power & outputs
Setup:	Thru front panel, RS-232 port using PBKAB601 cable, or RS-485 option
Dimensions:	66 x 44 x 107 mm (H x W X D)

POWER TRANSDUCERS	
Current Input:	1-5A AC rms
CT Primary Range:	1 to 9999A
Frequency:	25-60Hz nominal
Input Burden:	<0.2VA per phase at rated input current, nominal
Overload:	1.2x rated input continuous, 10x for 3 sec, 50x for 1 sec
Voltage Input:	100 to 500V L-L
PT Primary Range:	100V to 692kV L-L
Frequency:	25-60Hz nominal
Input Burden:	<0.6 VA per phase at Vin, nominal
Overload:	1.2x rated input continuous, 2x for 1s; 300V max if powered from input
Measuring Span:	20° to 360° for PF or phase angle
Accuracy Class:	0.2 for power, 0.5 for PF or phase angle
Tempco:	±0.2%/10°C
Output:	V or mA selected via internal DIP switch
Ranges:	0-10V/0-20mA/4-20mA/0-1mA; ±10V/±20mA
Load Resistance:	I: <600Ω @24mA, <15kΩ @1mA; V: >5000Ω @10V
Response Time:	<750ms
Temperature:	0 to 45°C operating, <75% RH
Isolation:	5200VDC, input to power & outputs
Setup:	Thru front panel, RS-232 port using PBKAB601 cable, or RS-485 option
Dimensions:	66 x 79 x 107 mm (H x W X D)

### ORDERING INFORMATION

Insert Code for Each Letter to Build Part Number.

VOLTAGE & CURRENT TRANSDUCERS	
A Model	
TT20-I74	1-5A, programmable
TT20-V8E	57-500V, programmable
B Power Supply	
H	60-300V AC/DC ±5%, 10VA max.
F	24-60V AC/DC ±10%, 6VA max.
C Output	
1	One, DC V/mA
2	Two, DC V/mA
D Display	
D	backlit LCD display & keypad
Z	no display or keypad
E Communications	
R	RS-485 Modbus
Z	no communications
F Programming Cable	
C	with PBKAB601 RS-232 cable
Z	no cable

FREQUENCY TRANSDUCERS	
A Model	
TT25-B8F	100-500V, 55-65Hz
TT25-78F	100-500V, 45-65Hz
TT25-68F	100-500V, 45-55Hz
B Power Supply	
H	60-300V AC/DC ±5%, 10VA max.
F	24-60V AC/DC ±10%, 6VA max.
C Output	
1	One, DC V/mA
2	Two, DC V/mA
D Display	
D	backlit LCD display & keypad
Z	no display or keypad
E Communications	
R	RS-485 Modbus
Z	no communications
F Programming Cable	
C	with PBKAB601 RS-232 cable
Z	no cable

POWER TRANSDUCERS	
A Model	
TT30-P	Active Power
TT30-Q	Reactive Power
TT30-S	Apparent Power
B System Type	
1	1P2W
2	3P3W unbalanced (no PF or φ)
3	3P4W unbalanced (no PF or φ)
4	3P4W balanced
5	3P3W balanced
6	3P3W balanced V1-2, I1
7	3P3W balanced V1-3, I1
8	3P3W balanced V2-3, I1
C Input	
8F75	1-5A, 100-500V
D Power Supply	
H	60-300V AC/DC ±5%, 10VA max.
F	24-60V AC/DC ±10%, 6VA max.
E Output	
1	One, DC V/mA
2	Two, DC V/mA
F Display	
D	backlit LCD display & keypad
Z	no display or keypad
G Communications	
R	RS-485 Modbus
Z	no communications
H Programming Cable	
C	with PBKAB601 RS-232 cable
Z	no cable