

Voltage Transducers

AC Voltage Average Sensing - Auxiliary Powered

Single or three-phase models offering voltage measurement down to zero input. Average sensing and calibrated to indicate the RMS value of a sine wave with up to 1% distortion. Input, output and auxiliary are isolated.

Model	Accuracy	Function	Connection diagram
253-TVL	Class 0.5	AC voltage average sensing, 75mm(3") case	15
256-TVL	Class 0.5	AC voltage average sensing, 3-phase 3 DC outputs, 150mm(6") case	11
252-XVL	Class 0.2	AC voltage average sensing, 50mm(2") case	15

Specifications

Input*:	63.5V, 100V, 110V, 120V, 150V, 220V, 230V, 240V, 300V, 380V, 400V, 415V, 440V, 480V, 500V & 600V AC
Output:	0/1mA, 0/5mA, 0/10mA, 0/20mA or 4/20mA DC 0/1V, 0/5V or 0/10V DC
Current:	1 or 5A AC
Frequency:	50Hz, 60Hz
Auxiliary*:	100-480V AC 12V, 24V, 48V, 110V or 125V DC

*Max AC input & Aux on 256-TVL is 300V

AC Voltage Average Sensing - Self Powered

Average sensing and calibrated to indicate the RMS value of a sine wave with less than 1% distortion. Internal power is derived from the input signal and will maintain accuracy down to 20% of full scale. Input and output are isolated.

Model	Accuracy	Function	Connection diagram
253-TVA	Class 0.5	AC voltage average sensing, 75mm(3") case	10
252-XVA	Class 0.2	AC voltage average sensing, 50mm(2") case	10

Specifications

Input:	63.5V, 100V, 110V, 120V, 150V, 220V, 230V, 240V, 300V, 380V, 400V, 415V, 440V, 480V, 500V & 600V AC
Output:	0/1mA, 0/5mA, 0/10mA or 0/20mA (DC 0/1V, 0/5V or 0/10V DC available on special request)
Current:	1 or 5A AC
Frequency:	50Hz, 60Hz

True RMS Voltage - Auxiliary Powered

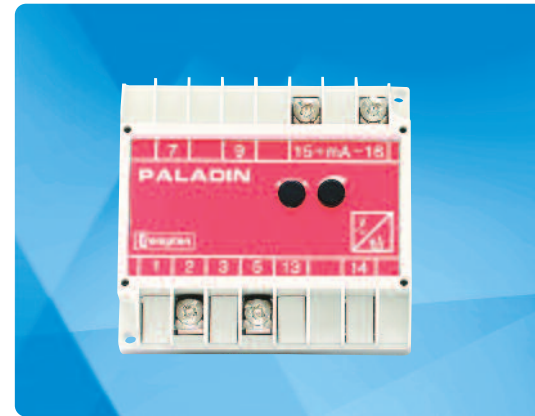
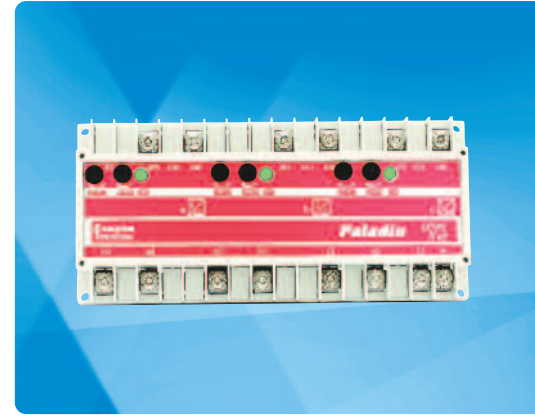
Single or three-phase models offering voltage measurement down to zero input. True RMS measurement of the input voltage, measuring non standard and distorted waveforms. Calibrated for sine waves with up to 30% of 3rd harmonic distortion. Isolation is provided between input, output and auxiliary.

Model	Accuracy	Function	Connection diagram
253-TVR	Class 0.5	AC voltage RMS sensing, 75mm(3") case	15
256-TVR	Class 0.5	AC voltage RMS sensing, 3-phase, 3 DC outputs, 150mm(6") case	11
252-XVR	Class 0.2	AC voltage RMS sensing, 50mm(2") case	15
256-XVR	Class 0.2	AC voltage RMS sensing, 3 phase 4 wire, 3 DC outputs, 150mm(6") case	15

Specifications

Input*:	63.5V, 100V, 110V, 120V, 150V, 220V, 230V, 240V, 300V, 380V, 400V, 415V, 440V, 480V, 500V & 600V AC
Output:	0/1mA, 0/5mA, 0/10mA, 0/20mA or 4/20mA DC 0/1V, 0/5V or 0/10V DC
Current:	1 or 5A AC
Frequency:	50Hz, 60Hz
Auxiliary*:	100-480V AC 12V, 24V, 48V, 110V or 125V DC

*Max AC input & Aux on 256-TVR is 300V





AC Voltage Suppressed Zero – Auxiliary or Self Powered

Single or three-phase models offering ‘expanded scale’ measurements at critical voltage levels, indicating small changes within a large voltage span. Average sensing and calibrated to indicate the RMS value of a sine wave less than 1% distortion. Isolation is provided between input, output and auxiliary.

Model	Accuracy	Function	Connection diagram
253-TVZ	Class 0.5	AC voltage RMS sensing suppressed zero, 50mm(2") case - self powered	15
256-XVZ	Class 0.2	AC voltage RMS sensing suppressed zero, 3-phase 4-wire, 3 DC outputs, 150mm(6") case - auxiliary powered	15

Specifications

Input*:	Between +/-10% and +/-30% of nominal 63.5V, 100V, 110V, 120V, 139V, 208V, 220V, 240V, 250V, 277V, 380V, 400V, 415V, 440V, & 480V AC
Output:	0/1mA, 0/5mA, 0/10mA or 0/20mA DC 0/1V, 0/5V or 0/10V DC
Current:	1 or 5A AC
Frequency:	50Hz, 60Hz
Auxiliary:	100-480V AC 12V, 24V, 48V, 110V or 125V DC



Frequency Transducers

Frequency Sensing - Self Powered

Provides a DC output which is directly proportional to input frequency. Internal power is derived from the input signal and will maintain accuracy between 80% and 120% or better of nominal input voltage. Input and output are isolated.

Model	Accuracy	Function	Connection diagram
253-THZ	Class 0.5	Frequency sensing, 75mm(3") case	10
252-XHA	Class 0.2	Frequency sensing, 50mm(2") case	10

Specifications

Input:	63.5V, 100V, 110V, 120V, 139V, 208V, 220V, 240V, 250V, 277V, 380V, 400V, 415V, 440V, & 480V AC
Output:	0/1mA, 0/5mA, 0/10mA or 0/20mA DC 0/1V, 0/5V or 0/10V DC
Current:	1 or 5A AC
Frequency:	45/55Hz, 55/65Hz, 45/65Hz & 360/440Hz

Frequency Sensing - Auxiliary Powered

Provides a DC output which is directly proportional to input frequency. Internal power is derived from the input signal and will maintain accuracy whilst the auxiliary input is within specification limits. 253-THZ offers AC auxiliary and 252-THL/Z caters for both AC and DC auxiliary. Isolation is provided between input, output and auxiliary.

Model	Accuracy	Function	Connection diagram
252-THL	Class 0.2	Frequency sensing, live zero 50mm(2") case	15
252-THS	Class 0.2	Frequency sensing, true zero 50mm(2") case	15

Specifications

Input:	63.5V, 100V, 110V, 120V, 139V, 208V, 220V, 240V, 250V, 277V, 380V, 400V, 415V, 440V, & 480V AC
Output:	0/1mA, 0/5mA, 0/10mA or 0/20mA DC 0/1V, 0/5V or 0/10V DC
Current:	1 or 5A AC
Frequency:	45/55Hz, 55/65Hz, 45/65Hz
Auxiliary:	100-480V AC 12V, 24V, 48V, 110V or 125V DC