

# Ac Active VAR Transducer v4 ART191

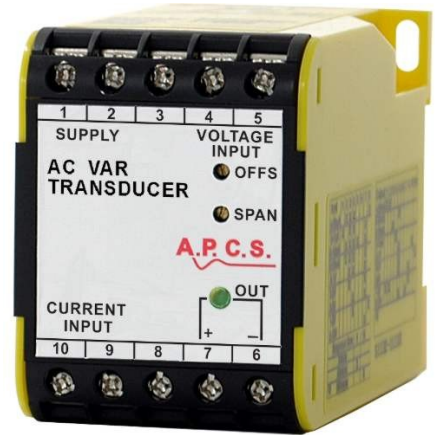
## DESCRIPTION

The ART191 converts the instantaneous VAR input in a single phase or 3 phase (3 or 4 wire) balanced load system into a standard DC output signal that is proportional to the measured value. The DC signal is suitable for driving measurement and/or control equipment either at the measurement point or at a remote location. Input Voltages of 63.5 to 415V and input currents of 0.5 to 10A can be connected directly to the transducer terminals, or inputs can be connected via external current and voltage transformers.

Internal transformers provide galvanic isolation between, input voltage, input current and power supply circuits.

The output signal can be uni-directional, bi-directional or offset. Output signal level is indicated by a green LED on the front that gives a clear indication of module function.

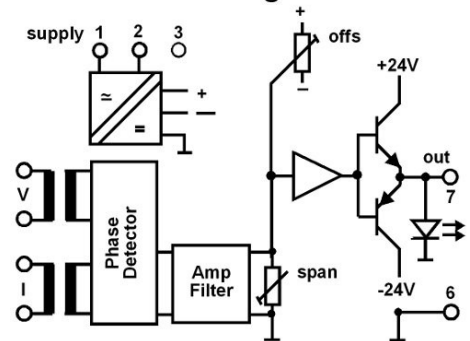
Final calibration is trimmed using the front accessible 'offs' and 'span' 15-turn trim adjustments. Various power supply choices are available ranging from 415Vac down to 12Vdc. These transducers are Australian designed and manufactured and offer a vast range of input to output combinations.



## General Specifications

Size:	52 W x 70 H x 110 D (mm).
Mounting:	DIN-Rail, gear plate.
Termination:	Screw terminals on front.
Protection class:	IP40.
Weight:	0.400 kg.
Housing material:	ABS.
Calibration accuracy:	0.2% of span.
Front 'OFFS' adjust:	±25% typical.
Front 'SPAN' adjust:	±25% typical.
Combined linearity/drift error:	0.2% of span.
Accuracy as AS1384-1973:	Class 0.2.
Response time:	<500ms.
Ambient temperature:	0...+60°C (operating).
Temperature effect:	0.02% per °C.
Input range:	Current: 0.5 up to 10Aac (40 - 60Hz). Voltage: 63.5 to 415Vac (40 - 60Hz).
Input burden:	Current: <0.3VA; Voltage: 1mA.
Input/output isolation:	2kV rms.
Auxiliary supply isolation:	2kV.
Overload continuous:	150% of rated input (current & voltage).
Overload short term (2 sec):	20 times rated input current, 1.9 times rated input voltage.
Output loop drive:	Max 20mA drive for voltage output. Max 20V drive for current output.
Output load change effect:	less than 0.2% up to max. load.
Output ripple:	less than 0.2%.
Power requirements:	3W.
Electromagnetic compatibility:	Complies with AS/NZS 4251.1 (EN 50081.1)

## Block Diagram



For input / output combinations refer to TYPE NO. DESIGNATION overleaf.

