


# Analogue To Pulse Converter v4 APC153

## DESCRIPTION

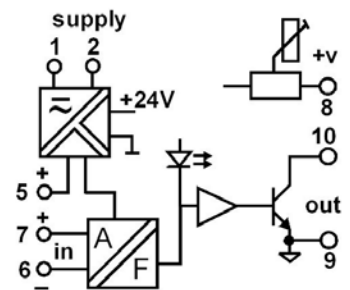
The APC153 is an analogue to pulse converter that is factory configured for a wide range of voltage (1mV to 100Vdc) current (1mA to 1Adc) and sensor inputs while providing true 3-way galvanic isolation up to 1500Vdc. The output frequency range can be factory calibrated for any frequency span from 10Hz up to 10kHz, with low scale frequency offsetting also available. e.g. 0 - 10Vdc in = 1 - 2kHz out. The input/output configuration can also be set for reverse action if required. Final calibration is trimmed using the front accessible 'offs' and 'span' 15-turn trim adjustments. The output pulse amplitude is adjustable via the 15-turn reference front potentiometer, which allows exact pulse voltage levels to be set. The module output is indicated by a front mounted LED which provides clear indication of module function and frequency output. Power supply variations from 240Vac down to 8Vdc all providing isolation of 2kVrms/2.5kVdc. RF and power transient protection is standard as it is with all APCS modules.



## General Specifications

Size:	52 W x 70 H x 110 D (mm).
Mounting:	DIN-Rail, gear plate.
Termination:	Top mounted screw terminals.
Protection class:	IP40.
Weight:	0.300 kg.
Housing material:	ABS.
Calibration accuracy:	±0.2% of SPAN.
Front 'SPAN' adjust:	±10% typical.
Front 'OFFS' adjust:	±10% typical.
Repeatability:	±0.2% of SPAN.
Combined linearity and drift error:	±0.50% of SPAN.
Temperature effect:	Typically 0.02% of span per °C.
Operating temperature:	-10...+50°C.
Power supply voltage fluctuation effect:	For ±10% fluctuation 0.5% of range.
Output frequency range:	10Hz to 10kHz. For output pulse frequencies 10Hz and below refer to LI152.
Pulse voltage level:	1.0 up to 24Vdc (adjustable).
Output pulse drive:	20mA maximum.
Output transistor rating:	30V, 100mA.
Input/output isolation:	1000Vrms/1500Vdc.
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.

