

ADC Active Digital Controller



The Edwards Active Digital Controller (ADC) is a compact single gauge controller and display. It features a bright LED display and simple push-button controls. The ADC automatically recognizes compatible Edwards gauges, loads the appropriate look-up table and displays the pressure in commonly used vacuum units.

Two versions are available; the standard ADC simply displays the pressure in choice of units, and the enhanced ADC includes a second gauge connection, two set-point relays, two analogue outputs and an RS232 interface.

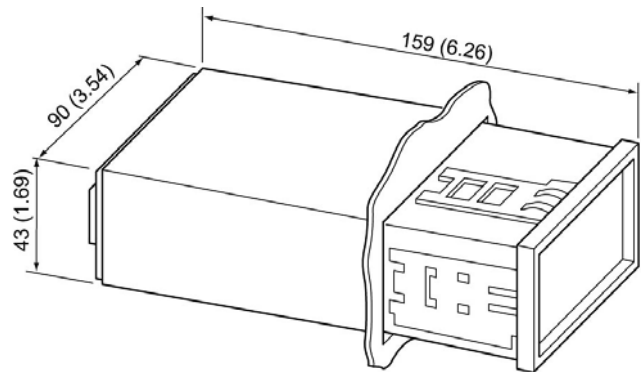
The ADC mk2 enhanced controller can now support 2 different gauges e.g. APG100 and AIM.

4 Features & Benefits

Page
140

- Plug and measure operation means you simply plug in the mains supply, connect the gauge and ADC displays the measured pressure
- The ADC supports Edwards gauges with a total measuring range of 2000 to 1×10^{-9} mbar (1500 to 7.5×10^{-10} Torr)
- Bright LED display gives clear, long distance readability
- The ADC displays units in mbar, Torr, Pascal or Volts
- Small 1/8 DIN enclosure, may be panel or bench mounted

Dimensions



Technical Data

Active gauge compatibility	
Standard	APG100, APG-L, APG-MP, APG-M, APGX-H, APGX-L, WRG
Enhanced	Up to two identical gauges from the standard version plus AIM-X, AIM-S & ASG
Display	High brightness green LED display (0.47 inch high) Units - mbar/Torr/Pa/Volts
Electrical supply	100 to 240V AC 47 to 63 Hz
Dimensional Data	
Panel cut-out	92 + 0.8 x 45 + 0.6 mm (3.62inch x 1.77 inch) to DIN43700
Panel thickness	1.5mm (0.06 inch) Min
Weight	0.33Kg
Operating and storage data	
Operating temperature	+0 to +40°C
Storage temperature	-30 to +70°C
Max ambient operating humidity	90% RH non condensing at 40°C
Standards	
Electrical safety	BS EN 61010-1 2001
Electrical noise immunity	BS EN 61326 (Industrial location, class B emissions)
Flame retardant case materials	UL94 V1
Enclosure rating	IP40
Enhanced features	
Two analogue output	0-10V d.c.
Two set-point relays, volt free single pole change-over	1A at 48V d.c. / 2A at 24V d.c.
Serial output	RS232

Ordering Information

Product Description	Order No.
ADC Standard	D39590000
ADC mk2 Enhanced	D39591500
ADC Standard, Certificated	D3959000C
ADC mk2 Enhanced, Certificated	D3959150C
Accessories & Spares	Order No.
0.5M Active Gauge Cable	D40001005
100M Active Gauge Cable Assembly	D40001999
10M Active Gauge Cable	D40001100
15M Active Gauge Cable	D40001150
1M Active Gauge Cable	D40001010
25M Active Gauge Cable	D40001250
3M Active Gauge Cable	D40001030
50M Active Gauge Cable	D40001500
5M Active Gauge Cable	D40001050
Linecord 2M North Euro Plug	D40013030
Linecord 2M UK Plug	D40013025
Linecord 2m With US Plug	D40013120
TIC RS232 Interface Cable 2m	D39700834