

Активные контроллеры цифровые, усовершенствованные ТИС, цифровые активные датчики Пирани nARG, инверсно-магнетронные вакуумные датчики nAIM, датчики широкого диапазона nWRG

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ACTIVE GAUGE CONTROLLERS

Active Digital Controller

The 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 recognises compatible Edwards gauges, loads the appropriate look-up table and displays the pressure in commonly used vacuum units.



- Plug and measure operation
- Bright LED display for clear visibility
- Choice of display units- mbar, Torr, Pascal
- Supports APG100, APGXH and WRG gauges

Enhanced Active Digital Controller

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



- Controls two active gauges of the same type
- 2 set-point relays
- Simple push button control
- RS232 interface and analog output
- Supports APG100, APGXH, WRG and AIM gauges

TIC Controller

The TIC instrument controller offers comprehensive control and display of up to 6 compatible Edwards gauges. Intuitive user interface, 6 set points and full Windows Software for control and data logging functionality.



- Universal controller for up to 6 active gauges
- Compact design
- Clear, easy-to-use graphical user interface
- Serial communication Windows™ PC program including data logger, plus analogue outputs
- RS232 interface and analogue output
- Supports APG100, APGXH, WRG, AIM and AIGX gauges

Controller	Order number	Max no. of gauges	No. of setpoints	Windows software	Data logging
TIC controller (3 gauge)	D39700000	3	3	Yes	Yes
TIC controller (6 gauge)	D39701000	6	6	Yes	Yes
Active digital controller (ADC)	D39590000	1	0	No	No
Enhanced digital controller (eADC)	D39591500	2	2	No	No
UK power cable for TIC/ADC	D40013025				
EU power cable for TIC/ADC	D40013030				
US power cable for TIC/ADC	D40013120				

nAPG Digital Active Pirani Gauge

10 ⁻¹⁰	10 ⁻⁹	10 ⁻⁸	10 ⁻⁷	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	10 ⁻²	10 ⁻¹	1	10	10 ²	10 ³
Ultra High Vacuum		High Vacuum			Medium Vacuum			Low Vacuum					

Edwards nAPG series Digital Active Pirani vacuum gauges are available in two models. The nAPG-M is the standard model and measures from atmosphere to 10⁻³ mbar, the nAPG-LC is a corrosion resistant version with measurement from atmosphere to 10⁻⁴ mbar.

Both gauges feature compact size for easy installation, a serial output and a replaceable sensor tube. They are also CSA and C/US approved as well as fully RoHS compliant due to their lead-free construction.

Features and benefits

- Wide-range supply voltage allows operation from 15 to 48 V DC
- Gauge naming allows user to store gauge identification data
- Sensor tube can be baked to 150 °C
- Adjustable open collector set-point output for simple process control and interlocking
- NW16 flange for easy connection to vacuum systems – NW25 flange options on request
- Serial communications based on a simple ASCII, low latency, query and command protocol that can operated in a point to point or multi-drop system with minimum overhead
- Remote calibration possible
- Cable connections and gauge adjustment conveniently located, thereby minimising the space envelope required for access
- CSA and C/US approved, meets the safety requirements for electrical equipment for measurement
- RS485 or RS232 versions
- 9600 to 38400 baud, 8bits, 1 start bit, 1 stop bit, no parity



Technical data

Performance	
Measurement range	nAPG-M Atmosphere to 10 ⁻³ mbar nAPG-LC Atmosphere to 10 ⁻⁴ mbar
Accuracy	
nAPG-M Typically	±15% at <100 mbar
nAPG-LC Typically	±15% at <10 mbar
Maximum over-pressure	10 bar absolute
Operating and storage conditions	
Temperature range	
Operating	5 to 60 °C
Storage	30 to 70 °C
Bake-out with electronics removed	150 °C
Humidity	80% RH up to 31 °C decreasing linearly to 50% RH at 40 °C and above
Maximum altitude	3000 m
Filament temperature	100 °C above ambient
Electrical data	
Electrical supply voltage	15 to 48 V DC nominal
Power consumption	1 W
Set-point	open collector transistor
Rating	48 V DC 100 mA

Order information

nAPG Digital Active Pirani Gauge	Order number
nAPG-M RS485 NW16 flange	D02690000
nAPG-M RS232 NW16 flange	D02690500
nAPG-LC RS485 NW16 flange	D02691000
nAPG-LC RS232 NW16 flange	D02691500
Other flange sizes available upon request	
Accessories and spares	Order number
Spare sensor tube for nAPG-M NW16 flange	D02601801
Spare sensor tube for nAPG-LC NW16 flange	D02603801

nAIM Digital Active Inverted Magnetron Gauge

10 ⁻¹⁰	10 ⁻⁹	10 ⁻⁸	10 ⁻⁷	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	10 ⁻²	10 ⁻¹	1	10	10 ²	10 ³
Ultra High Vacuum		High Vacuum				Medium Vacuum			Low Vacuum				

Edwards nAIM series Digital Active Inverted Magnetron Vacuum Gauges combine the gauge-head and controller in one compact active unit. These are new digital versions of gauges that have proved to be rugged and reliable in a wide range of applications ranging from scientific instruments to industrial processes.

The nAIM gauges feature compact size for easy installation, a serial output and a replaceable sensor tube. They are also CSA and C/US approved as well as fully RoHS compliant due to their lead-free construction.



Features and benefits

- Wide-range supply voltage allows operation from 15 to 48 V DC
- Gauge naming allows user to store gauge identification data
- Rapid tube replacement without pre-calibration
- Low external magnetic field version (L) for sensitive analytical instruments available upon request
- Serial communications based on a simple ASCII, low latency, query and command protocol that can operate in a point to point or multi-drop system with minimum overhead
- Adjustable open collector set-point output for straightforward process control and interlocking
- CSA and C/US approved, meets the safety requirements for electrical equipment for measurement
- RS485 or RS232 versions
- 9600 to 38400 baud, 8bits, 1 start bit, 1 stop bit, no parity

Technical data

Performance	
Measurement range	10 ⁻² to 10 ⁻⁹ mbar
Accuracy typically	±30%
Maximum over-pressure	10 bar absolute
Operating and storage conditions	
Temperature range	
Operating	5 to 60 °C
Storage	0 to 70 °C
Humidity	80% RH up to 31 °C decreasing linearly to 50% RH at 40 °C and above
Maximum altitude	3000 m
Electrical data	
Electrical supply voltage	15 to 48 V DC nominal
Power consumption	2 W
Set-point	open collector transistor
Rating	48 V DC 100 mA

Order information

nAIM Digital Active Inverted Magnetron Gauge	Order number
nAIM RS485 NW25 flange	D14690010
nAIM-I RS485 NW25 flange	D14690030
nAIM RS232 NW25 flange	D14690510
nAIM-I RS232 NW25 flange	D14690530
Other flange sizes and low field version (L) available upon request	

Accessories and spares	Order number
Spare body tube assembly for nAIM-M NW25 flange	D14545801

nWRG Digital Wide Range Gauge

10 ⁻¹⁰	10 ⁻⁹	10 ⁻⁸	10 ⁻⁷	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	10 ⁻²	10 ⁻¹	1	10	10 ²	10 ³
Ultra High Vacuum		High Vacuum			Medium Vacuum			Low Vacuum					

Edwards nWRG series Digital Wide Range vacuum gauges offer single port pressure measurement in the range atmosphere to 10⁻⁹ mbar. These are new digital versions of gauges that have proved to be rugged and reliable in a wide range of applications ranging from scientific instruments to industrial processes.

The nWRG gauges feature compact size for easy installation, a serial output and a replaceable sensor tube. They are also CSA and C/US approved as well as fully RoHS compliant due to their lead-free construction.



Features and benefits

- Wide-range supply voltage allows operation from 15 to 48 V DC
- Gauge naming allows user to store gauge identification data
- Automatic vacuum setting of Pirani gauge element
- Unique striker design ensures rapid striking even at high vacuum or in contaminating conditions
- Low external magnetic field version (L) for sensitive analytical instruments available upon request
- Serial communications based on a simple ASCII, low latency, query and command protocol that can operated in a point to point or multidrop system with minimum overhead

Technical data

Performance	
Measurement range	Atmosphere to 10 ⁻⁹ mbar
Accuracy Typically	±15% <100 mbar ±30% <10 ⁻³ mbar
Maximum over-pressure	6 bar absolute
Operating and storage conditions	
Temperature range	
Operating	5 to 60 °C
Storage	0 to 70 °C
Bake-out with electronics removed	150 °C
Humidity	80% RH up to 31 °C decreasing linearly to 50% RH at 40 °C and above
Maximum altitude	3000 m
Electrical data	
Electrical supply voltage	15 to 48 V DC nominal
Power consumption	2 W
Set-point	open collector transistor
Rating	48 V DC 100 mA

Order information

nWRG Digital Wide Range Gauge	Order number
nWRG RS485 NW25	D14790010
nWRG RS232 NW25	D14790510
Other flange sizes and low field version (L) available upon request	
Accessories and spares	Order number
Replacement body tube assembly NW25 flange	D14701801



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