

- A Commissioning
- B Product description
- C Sellings
- D Test mode
- E RS232 mode
- F Appendices

# Appendix 1

## Technical characteristics

General specifications	Voltage	100 - 240 V AC
	Frequency	50/60 Hz
	Power requirement	< 50 VA
	Weight	1.3 kg
	Overvoltage category	II
	Protection class	I
Environment	Storage temperature	-20 ... +60 °C
	Running temperature	+5 ... +50 °C
	Relative humidity	< 70 %
	Use	Inside use only, max altitude 2000 metres
	Pollution level	II
	Protection	IP 30
Gauges connected	Number	1
	Usable types	Pirani: AP2004
		CRYSTAL/Hot cathode: AHC2010
		Pirani / Cold cathode: ACC2009
Capacitive: ASD200X-ARD200X		
Sockets	Gauges	D-Sub 9P (female)
	Remote	D-Sub 15P (female)
	RS232	D-Sub 9P (male)
Commands	Front panel buttons	4 buttons
	Rear panel connectors	see "Overview of multi-channel controller" paragraph in this manual
Display	Screen	LCD
	Refresh time	100 ms
Measurement	Measuring range	specific to gauge
	Measurement error	amplifier: $\leq 0.02\%$ of measured signal
		offset : $\leq 0.05\%$ of measured signal
	Filter time constant	slow: $t = 750$ ms (fq = 0.2 Hz)
		normal: $t = 150$ ms (fq = 1 Hz)
		fast: $t = 20$ ms (fq = 8 Hz)
Pressure	mbar, Pa or Torr	
Zero function	Capacitive gauges only	
Gauge power supply	Voltage	24 V DC $\pm 5\%$
	Max power requirement (per channel)	13 W
	Current protection	900 mA by resettable fuse
Gauge commands	Number	2 (on gauge connector)
	ON/OFF signal	ON : +24 V, OFF : 0 V

GB 03438 - Edition 02 - September 07

continued on page 3/15

A	Commissioning
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Remote control power supply	Voltage /Max current	24 V DC $\pm$ 5 % ; 1 00 mA (on Remote connector)
	Current protection	300 mA by resettable fuse
Set Point output	Number	2 (on REMOTE connector)
	Type of contact	Dry contact
	Allowable load	125 V AC, 0.3 A / 30 V DC, 1 A
	Mechanical service life	5 x 10 <sup>7</sup> cycles de commutation
	Electrical service life	1 x 10 <sup>5</sup> cycles de commutation (à charge maxi)
Remote control input	Number	2 (on REMOTE connector)
	Photocoupler input	24 V DC
Analog output	Number	1 (on REMOTE connector)
	Voltage range	- 0.5...10.5 V
	Accuracy	$\pm$ 50 mV (difference from displayed value)
	Impedance	200 $\Omega$
Recording output	Number	1 (on REMOTE connector)
	Voltage range	0...10 V
	Precision	$\pm$ 20 mV
	Impedance	200 $\Omega$
Interface (RS232)	Standard	RS232 (RS232 connector)
	Protocol	1 start bit, 8 data bits, 1 stop bit, no parity bit
	RS232	TDX, RXD and GND
	Speed	9600 / 19200 / 38400 Bauds
Standard	CE mark	Low voltage directive: EN61010-1
		EMC directive: EN61326 (Class A emission)