

AGC ACTIVE GAUGE CONTROLLERS



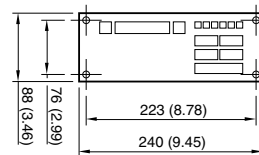
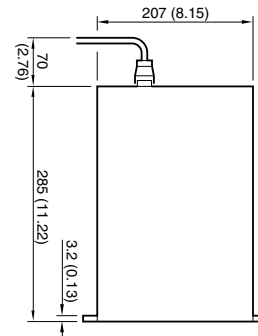
The Active Gauge Controller (AGC) is the world's first truly universal intelligent vacuum gauge controller. Models are available to drive three or six active gauges of any type. There are versions available with either a single or triple pressure display as well as versions which accommodate capacitance manometers. Control functions are set using a simple menu system and are retained after switching off the power. Full remote control or simple data logging is possible using the RS232 interface and a Windows™ based software driver is available.

Features & benefits

- Universal vacuum gauge controller
 - Can drive any combination of BOC Edwards Active gauges including Pirani, linear Pirani, thermocouple, strain, inverted magnetron, wide range gauge and ion gauges as well as optional capacitance manometer support
- Relay options
 - All models have six solid state switches rated at 40 V d.c. 100 mA. There is also a choice of an internal card with six changeover relays rated at 240 V 3 A, or an external DIN rail mounted module with six 240 V 5 A relays
- Automatic range switching and gauge protection
 - Two or more heads which cover particular pressure ranges may be linked to give automatic continuous indication over their combined pressure ranges. This feature also protects gauges that would otherwise be damaged if switched on at high pressures
- Automatic identification of gauge head type
 - Simply plugging in the gauge allows automatic identification and range scaling
- Remote control
 - Full remote control of all AGC functions or simple data logging of pressures is available through the RS232 option. A Windows based software driver is available which allows the AGC to communicate with a wide range of Windows based software packages such as spreadsheets, databases graphical display/control systems etc
- Capacitance manometer versions
 - Capacitance manometers requiring a ± 15 V power supply (BOC Edwards 600 series Barocels) should be used with CM versions of the Active Gauge Controller. A maximum of three such heads can be connected as well as all types of Active gauge
- Universal power supply operation
 - The AGC will accept voltages between 90 and 265 V and frequencies between 45 and 70 Hz without the need for user adjustment

TECHNICAL DATA

Power supply	
Input voltage range	90 to 265 V a.c.
Input frequency range	45 to 70 Hz
Mains supply socket	IEC 320
Temperature range	
Operating	0 to +40 °C
Storage	-20 to +70 °C
Relative humidity range (non condensing)	
	10 to 90%
Standards	
Electronic design	EN 61010-1
Electromagnetic compatibility	EN 61326 (Class B Emissions)
Enclosure rating	IP205
Chart recorder outputs	
Active gauges	2 to 10 V d.c.
Capacitance manometers	0 to 10 V d.c.
Standard relays	
	6 open collector
	Transistor outputs
	40 V d.c.
	100 mA
Optional relay board	
Voltage (maximum)	240 V a.c.
Current (maximum)	3 A (non-inductive load)
Optional DIN rail mounting relay unit	
Voltage (maximum)	240 V a.c.
Current (maximum)	5 A (non-inductive load)
Dimensions	
	Half 19" rack, 2U
Weight	
	2.4 kg



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ORDERING INFORMATION

PRODUCT DESCRIPTION	ORDERING NUMBER
CM versions can accept 600, 622 and 655 capacitance manometers as well as active gauges	
AGC single display 6 head	D38654000
AGC single display 6 head CM	D38653000
AGC single display RS232 6 head	D38651000
AGC single display RS232 6 head CM	D38650000
AGC triple display RS232 6 head	D38661000
AGC triple display RS232 6 head CM	D38660000
AGC relay expansion board	D38651800
DIN mounting relay unit	D38504110
Half 19 inch rack blanking kit	D04830301
Half 19 inch rack joining kit	D04830302
Windows™ software driver	D38662800

SPARES & ACCESSORIES	ORDERING NUMBER
Active gauge cables (including FCC68/RJ45 compatible connection at both ends)	
0.5 m	D40001005
1 m	D40001010
3 m	D40001030
5 m	D40001050
10 m	D40001100
15 m	D40001150
25 m	D40001250
50 m	D40001500
100 m	D40001999
Non-standard lengths and screened cables available on request	
Barocel capacitance manometer adaptor cables	
600 series (screw terminal) to female FCC68/RJ45, 0.5 m	D40003010
622 series to female FCC68/RJ45, 0.5 m	D40003030
600/655 series ('D' connector) to female FCC68/RJ45, 0.5 m	D40003050
Interface cables RS232C, 3 m	
Terminates in 25 way D (female)	D38650400
Terminates in 9 way D (female)	D38650500
Turbomolecular pump controller interface cables	
EXC100 to female FCC68/RJ45, 0.5 m	D40003070
EXC120 to female FCC68/RJ45, 0.5 m	D40003080
EXC300 to female FCC68/RJ45, 0.5 m	D40003090
Mains cables	
2 m UK plug	D40013025
2 m USA plug	D40013120
2 m Northern European plug	D40013030