



Agilent XGS-600 HFIG

Technical Specifications

Item	Description
Supported Gauge Heads	<input type="checkbox"/> Agilent 563, 564, 571, 572, UHV24, UHV24p, MBA-100, MBA-200
Displayed Measurement Range*	<input type="checkbox"/> 5.0E-12 Torr to 1 mTorr (UHV24, UHV24p, 572) <input type="checkbox"/> 5.0E-11 Torr to 10 mTorr (563, 571, MBA100, MBA200) * This represents the ability of the controller to display pressure values and not the capability of the gauge heads to accurately measure pressure.
Emission Current	0.1 to 10.0 mA
Sensitivity Input Range	00.1 to 99.9/Torr
Gas Correction Factor Range	0.01 to 9.99
Degas	E-Beam type, 600 V at 10 mA, enabled only when pressure is below 1.0E-05 Torr. Pressure indications displayed during degas. Automatic shutoff after approximately 25 minutes, or manual shutoff.
Analog Output	<input type="checkbox"/> Range: 0-10 VDC <input type="checkbox"/> Slope: 1 V per decade log <input type="checkbox"/> Characteristic: output voltage = Log (Pressure) + 11 <input type="checkbox"/> Output when gauge OFF or Error = 10V <input type="checkbox"/> Load Impedance: >10 kOhms <input type="checkbox"/> Response Time: <input type="checkbox"/> SLOW - 250 msec <input type="checkbox"/> FAST - 10 msec
Error Detection	<input type="checkbox"/> Open Filament <input type="checkbox"/> Shorted Grid <input type="checkbox"/> Over Temperature <input type="checkbox"/> Over Pressure (1mT or 10mT dependant on tube type selected)



Agilent XGS-600 HFIG

Technical Specifications cont.

Item	Description
Gauge Connector	<input type="checkbox"/> Collector: SMB coax <input type="checkbox"/> Fil and Grid: AMP 5 pos Univ Mate-N-Lok
Remote I/O	<input type="checkbox"/> Connector: 6 pin IEEE 1394 (Firewire type) <input type="checkbox"/> Inputs for Emission on/off and DEGAS on/off are user selectable to be either Active LO or Active HI. Driving the input to the active state turns on that function. <ul style="list-style-type: none"> <input type="checkbox"/> HI = +5 V max, 2.4 V min <input type="checkbox"/> LO = 0.8 V max, 0 V min <input type="checkbox"/> Filament Select input: Pin 1 open or driven HI selects Fil1. Pin 1 grounded selects Fil2. <input type="checkbox"/> Status Output goes HI during error condition <input type="checkbox"/> Analog Output

Default Setup Values by Ion Gauge Type

HFIG Sensor Model	Default Emis Current (ma)	Default Sensitivity	Over-pressure limit (mT)+	Default Degas Power (mA)	Number of Filaments
MBA100	0.1	25	1-10*	1	1
MBA200	0.1	25	1-10*	1	2
571	4	10	1-10*	10	1
572	4	10	1	10	2
563	4	10	1-10*	10	1
564	0.1	6	1-10*	10	1
UHV24 (default)	4	25	1	10	2
UHV24p	4	20	1	10	2
IMG 100 (default)	N/A	2.0	10 (Hi Voltage stays ON)	N/A	N/A
IMG 300	N/A	2.5	10 (Hi Voltage stays ON)	N/A	N/A

+ Not a user-variable setup parameter

* If Emission Current is set: Less than 0.7 mA, overpressure is 10 mT (or equivalent in mbar or Pascal).

Greater than 0.7 mA, overpressure is 1 mT (or equivalent in mbar or Pascal).