



# **Granville-Phillips Products**

**January 2008**

## **Configuration Guide**

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# GRANVILLE-PHILLIPS® PRODUCTS

Effective January 1, 2008

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## How to order from this Configuration Guide

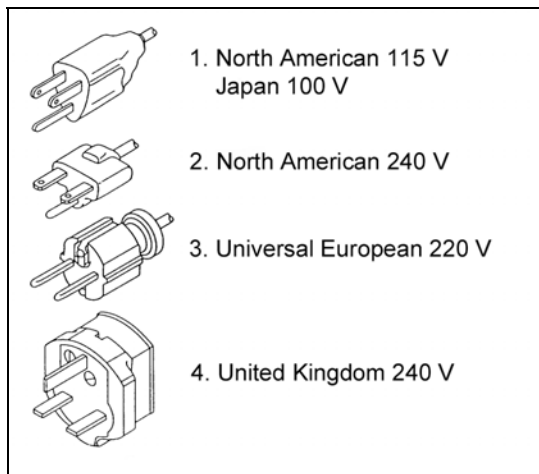
Ordering information is given in the brochures for the products in this Price List; however, additional information is provided here to help simplify your ordering process.

### Voltage Requirements and Pressure Indication

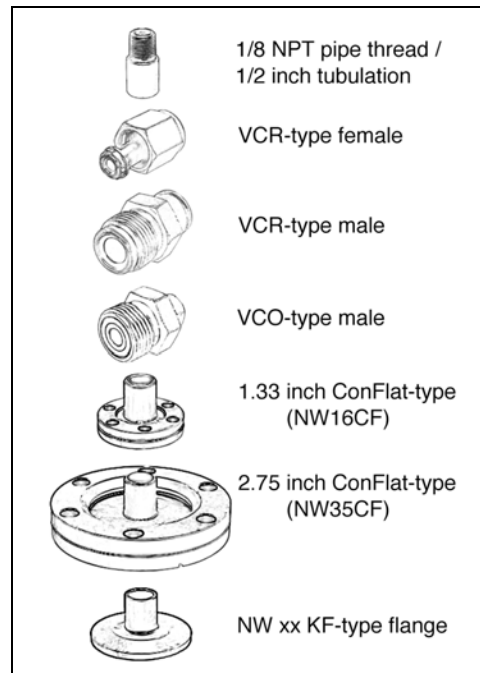
Vacuum Gauge Controllers are offered with a range of electrical cord connectors and pressure indication options. The standard power cord types are illustrated below.

### Flanges and Fittings

Vacuum gauges and valves are offered in a wide range of flanges and fittings on. Commonly used flanges and fittings are illustrated below. If you have other requirements, please contact Brooks Customer Support.



Electrical Cord Connectors for Controllers



Common Flanges & Fittings on Gauges

Cajon, VCR and VCO are registered trademarks of Cajon Company.  
ConFlat is a registered trademark of Varian / Vacuum Products Division.



## Micro-Ion® Plus Modules (Series 392)

Description	Catalog Number
-------------	----------------

**Micro-Ion Plus Modules (CE Marked)**

Select one of the output configurations and vacuum fitting to create the appropriate catalog number and determine the price (see the example below).

<b>Analog output, no display</b> <sup>1</sup>	392401 - 0 - # # - #
<b>Analog output, with display</b> <sup>1</sup>	392402 - 0 - # # - #
<b>RS-485 interface, no display</b>	392501 - # - # # - #
<b>RS-485 interface, with display</b>	392502 - # - # # - #
<b>DeviceNet™ interface, no display</b>	392601 - # - # # - #
<b>DeviceNet interface, with display</b>	392602 - # - # # - #

<b>Setpoints</b>	
None	0
Two	2
Three	3
<b>Ion Gauge Filaments</b>	
Yttria-coated iridium	Y
Tungsten	T
<b>Vacuum Fitting</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1/2 inch VCR-type male	H
1.33-inch (NW16CF) Conflat®-type	F
2.75-inch (NW35CF) Conflat-type	G
<b>Measurement units:</b>	
Torr	T
Mbar	M
Pa	P

**Example:** To order a Micro-Ion Plus Module with RS-485 output, no display, two setpoints, Tungsten filaments, NW25KF vacuum fitting, and units in Torr, select catalog number 392501-2-TE-T

**Notes:** 1. Setpoints not available in Analog only versions.

### Replacement Gauges for Micro-Ion Plus Modules

<b>Replacement Gauge</b>	392100 - # #
<b>Ion Gauge Filaments</b>	
Yttria-coated iridium	Y
Tungsten	T
<b>Vacuum Fitting</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1/2 inch VCR-type male	H
1.33-inch (NW16CF) Conflat-type	F
2.75-inch (NW35CF) Conflat-type	G

## Micro-Ion® ATM Modules (Series 390)

Description	Catalog Number
-------------	----------------

**Micro-Ion ATM Modules (CE Marked)**

Select one of the output configurations and vacuum fitting to create the appropriate catalog number and determine the price (see the example below).

<b>Analog output, no display</b> <sup>1</sup>	390410 - 0 - # # - #
<b>Analog output, with display</b> <sup>1</sup>	390411 - 0 - # # - #
<b>RS-485 interface, no display</b>	390510 - # - # # - #
<b>RS-485 interface, with display</b>	390511 - # - # # - #
<b>DeviceNet™ interface, no display</b>	390610 - # - # # - #
<b>DeviceNet interface, with display</b>	390611 - # - # # - #

<b>Setpoints</b>	
None	0
Two	2
Three	3
<b>Ion Gauge Filaments</b>	
Yttria-coated iridium	Y
Tungsten	T
<b>Vacuum Fitting</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1/2 inch VCR-type male	H
1.33-inch (NW16CF) Conflat®-type	F
2.75-inch (NW35CF) Conflat-type	G
<b>Measurement units:</b>	
Torr	T
Mbar	M
Pa	P

**Example:** To order a Micro-Ion ATM Module with RS-485 output, no display, two setpoints, Tungsten filaments, NW25KF vacuum fitting, and units in Torr, select catalog number 390510-2-TE-T

**Notes:** 1. Setpoints not available in Analog only versions.

### Replacement Gauges for Micro-Ion ATM Modules

<b>Replacement Gauge</b>	390100 - # #
<b>Ion Gauge Filaments</b>	
Yttria-coated iridium	Y
Tungsten	T
<b>Vacuum Fitting</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1/2 inch VCR-type male	H
1.33-inch (NW16CF) Conflat-type	F
2.75-inch (NW35CF) Conflat-type	G

## Convectron® ATM Modules (Series 385)

Description	Catalog Number
-------------	----------------

**Convectron ATM Modules (CE Marked)**

Select one of the output configurations and vacuum fitting to create the appropriate catalog number and determine the price (see the example below).

<b>Analog output, no display</b>	385001 - G #
<b>RS-485 interface, no display</b>	385002 - G # - #
<b>RS-485 interface, with display</b>	385003 - G # - #
<b>DeviceNet interface, no display</b>	385009 - G # - #
<b>DeviceNet interface, with display</b>	385007 - G # - #
<b>Vacuum Fitting</b>	
1/8 NPT, 1/2 inch tubulation	P
1/4 inch VCR-type female	Q
1/2 inch VCR-type female	R
NW16KF	D
NW25KF	E
NW40KF	K
1.33-inch (NW16CF) Conflat®-type	F
2.75-inch (NW35CF) Conflat-type	G
<b>Measurement units:</b>	
Torr	T
Mbar	M
Pa	P

**Example:** To order a Convectron ATM Module with RS-485 output, no display, NW16KF vacuum fitting, and units in Torr, select catalog number 385002-GD-T

### Replacement Gauges for Convectron ATM Modules

<b>Replacement Gauge</b>	385200 - G #
<b>Vacuum Fitting</b>	
1/8 NPT, 1/2 inch tubulation	P
1/4 inch VCR-type female	Q
1/2 inch VCR-type female	R
NW16KF	D
NW25KF	E
NW40KF	K
1.33-inch (NW16CF) Conflat-type	F
2.75-inch (NW35CF) Conflat-type	G

## Micro-Ion® Plus Modules (Series 356)

Description	Catalog Number
-------------	----------------

### Micro-Ion Plus Modules (CE Marked)

Choose one of the basic modules and add the options below to create your catalog number and determine the price (see the example below). Power supply and cable are not included.

<b>RS-485 interface, analog output, no display</b>	356001 - Y # - #
<b>RS-485 interface, analog output, digital display</b>	356002 - Y # - #
<b>DeviceNet™ interface, no display</b>	356004 - Y # - #
<b>DeviceNet interface, digital display</b>	356005 - Y # - #
<b>Vacuum Connection:</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1.33 inch (NW16CF) ConFlat®-type	F
2.75 inch (NW35CF) ConFlat-type	G
1/2 inch VCR®-type male	H
NW16KF Extended	M
NW25KF Extended	N
NW40KF Extended	L
<b>Measurement units:</b>	
Torr	T
mbar	M
Pa	P

**Example:** To order a Micro-Ion Plus Module with RS-485, analog output, digital display, NW25KF fitting, and display in Torr, select catalog number 356002-YE-T.

<b>Replacement gauges for Micro-Ion Plus Modules</b>	356006 - Y #
<b>Vacuum Connection:</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1.33 inch (NW16CF) ConFlat-type	F
2.75 inch (NW35CF) ConFlat-type	G
1/2 inch VCR-type male	H
NW16KF Extended	M
NW25KF Extended	N
NW40KF Extended	L

**Example:** To order a replacement gauge for a Micro-Ion Plus Module with NW25KF fitting, select catalog number 356006-YE.

<b>Optional Power Supply for Analog/RS-485 North America 115V</b>	356021-1
---	----------

### Accessory Power Supply for DeviceNet Version Only (CE Compliant)

<b>DeviceNet Power Supply</b>	347039 - #
North American 115V	1
North American 240V	2
Universal Europe 220V	3
United Kingdom 240V	4

## Mini-Convectron® Modules (Series 275)

Description	Catalog Number
<b>Mini-Convectron Modules, nonlinear analog output with complete electrical mating connector (CE Marked)</b>	
Operating Power: 11.5 Vdc to 26.5 Vdc (power supply and cable are not included)	
<b>1 process control setpoint relay</b>	
1/8 NPT / 1/2 inch tubulation	275800-EU
1/4 inch VCR®-type female fitting	275801-EU
1/2 inch VCR-type female fitting	275863-EU
3/8 inch VCO®-type male fitting	275802-EU
1.33 inch (NW16CF) ConFlat®-type flange	275803-EU
2.75 inch (NW35CF) ConFlat-type flange	275804-EU
NW16KF flange	275806-EU
NW25KF flange	275807-EU
NW40KF flange	275808-EU
<b>2 process control setpoint relays</b>	
1/8 NPT / 1/2 inch tubulation	275870-EU
1/4 inch VCR-type female fitting	275871-EU
1/2 inch VCR-type female fitting	275867-EU
3/8 inch VCO-type male fitting	275872-EU
1.33 inch (NW16CF) ConFlat-type flange	275873-EU
2.75 inch (NW35CF) ConFlat-type flange	275874-EU
NW16KF flange	275876-EU
NW25KF flange	275877-EU
NW40KF flange	275878-EU

**Mini-Convectron Modules with complete electrical mating connector (CE Marked)**  
**0 to 1 Torr linear analog output (0 - 10 Vdc) and nonlinear analog output (1 mTorr to 1000 Torr),**  
 no process control setpoint relays  
 Operating power: 13 Vdc to 26.5 Vdc (power supply and cable are not included)

1/8 NPT / 1/2 inch tubulation	275850-EU
1/4 inch VCR®-type female fitting	275851-EU
1/2 inch VCR-type female fitting	275862-EU
3/8 inch VCO®-type male fitting	275852-EU
1.33 inch (NW16CF) ConFlat®-type flange	275853-EU
2.75 inch (NW35CF) ConFlat-type flange	275854-EU
NW16KF flange	275856-EU
NW25KF flange	275857-EU
NW40KF flange	275858-EU

Replacement Convectron® Gauges for Mini-Convectron Modules are listed on page 11.

See page 3 for an illustration of commonly used vacuum fittings and flanges.  
 For other vacuum fittings, contact Brooks Customer Support.

**Mini-Convectron® Modules (Series 275) (Continued)**

Description	Catalog Number
-------------	----------------

**Mini-Convectron Modules with RS-485 interface, 2 process control setpoint relays, complete with electrical mating connector (CE Marked)**

Operating Power: 11 Vdc to 26.5 Vdc (power supply and cable are not included)

**Devices preset to Torr Units**

1/8 NPT / 1/2 inch tubulation	275527-EU
1/4 inch VCR-type female fitting	275528-EU
1/2 inch VCR-type female fitting	275529-EU
3/8 inch VCO-type male fitting	275530-EU
1.33 inch (NW16CF) ConFlat-type flange	275531-EU
2.75 inch (NW35CF) ConFlat-type flange	275532-EU
NW16KF flange	275546-EU
NW25KF flange	275534-EU
NW40KF flange	275535-EU

**Devices preset to Pascal or Mbar Units**

**Mini-Convectron Module w/gold-plated tungsten sensor**

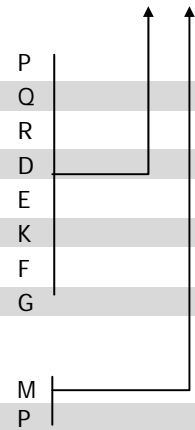
275546 - G # - #

**Flange/Fitting**

1/8 NPT / 1/2 inch tubulation	P
1/4 inch VCR-type female fitting	Q
1/2 inch VCR-type female fitting	R
NW16KF flange	D
NW25KF flange	E
NW40KF flange	K
1.33 inch (NW16CF) ConFlat-type flange	F
2.75 inch (NW35CF) ConFlat-type flange	G

**Measurement unit:**

mbar	M
Pa	P



Replacement Convectron® Gauges for Mini-Convectron Modules are listed on page 11.

See page 3 for an illustration of commonly used vacuum fittings and flanges. For other vacuum fittings, contact Brooks Customer Support.

## Mini-Convectron® Modules (Series 275) (Continued)

Description	Catalog Number
<b>Mini-Convectron Modules with 3-digit display, 2 process control setpoint relays, nonlinear analog output with complete electrical mating connector (CE Marked)</b>	
Operating Power: 11.5 Vdc to 26.5 Vdc (power supply and cable are not included)	
<b>Display in Torr</b>	
1/8 NPT / 1/2 inch tubulation	275904-EU
1/4 inch VCR®-type female fitting	275905-EU
1/2 inch VCR-type female fitting	275906-EU
3/8 inch VCO®-type male fitting	275907-EU
1.33 inch (NW16CF) ConFlat®-type flange	275908-EU
2.75 inch (NW35CF) ConFlat-type flange	275909-EU
NW16KF flange	275911-EU
NW25KF flange	275912-EU
NW40KF flange	275913-EU
<b>Display in Pascal</b>	
1/8 NPT / 1/2 inch tubulation	275904-EU-P
1/4 inch VCR-type female fitting	275905-EU-P
1/2 inch VCR-type female fitting	275906-EU-P
3/8 inch VCO-type male fitting	275907-EU-P
1.33 inch (NW16CF) ConFlat-type flange	275908-EU-P
2.75 inch (NW35CF) ConFlat-type flange	275909-EU-P
NW16KF flange	275911-EU-P
NW25KF flange	275912-EU-P
NW40KF flange	275913-EU-P
<b>Wall transformer power supply</b>	
Wall transformer to convert 120 Vac to 12 Vdc, with 6 foot (1.8 meter) long cable and 15-pin connector for use with Mini-Convectrons with digital display. (UL Listed – not CE-Marked)	275933

Replacement Convectron® Gauges for Mini-Convectron Modules are listed on page 11.

See page 3 for an illustration of commonly used vacuum fittings and flanges.  
For other vacuum fittings, contact Brooks Customer Support.

## Mini-Convectron® Modules (Series 275) (Continued)

Description	Catalog Number
-------------	----------------

**Mini-Convectron Modules with DeviceNet™ Interface and 2 process control setpoint relays (CE Marked)**

Operating Power: 11 to 26 Vdc (power supply and cable are not included)

Choose a Mini-Convectron Module and add the options below to create your catalog number and determine the price (see the example below).

**With Gold-plated Tungsten Sensor and No Display** 275553 - G # - #

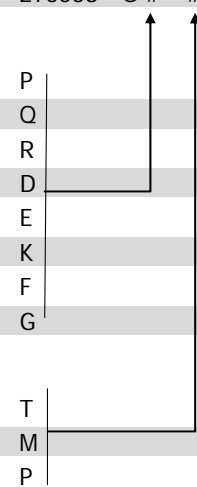
**With Gold-plated Tungsten Sensor and 3-Digit Digital Display** 275538 - G # - #

**Flange/Fitting:**

1/8 inch NPT / 1/2 inch tubulation	P	
1/4 inch VCR®-type female	Q	
1/2 inch VCR-type female	R	
NW16KF	D	
NW25KF	E	
NW40KF	K	
1.33 inch (NW16CF) ConFlat®-type	F	
2.75 inch (NW35CF) ConFlat-type	G	

**Measurement unit:**

Torr	T	
mbar	M	
Pa	P	



**Example:** To order a Mini-Convectron DeviceNet Module with 3-digit display, NW16KF fitting, and display in Torr, select catalog number 275538-GD-T

**Replacement Gauges for Mini-Convectron Modules, Gold-plated Tungsten Sensor**

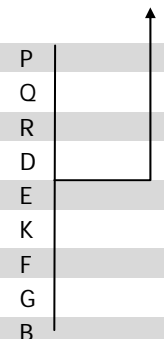
1/8 NPT / 1/2 inch tubulation	275810
1/4 inch VCR-type female fitting	275811
1/2 inch VCR-type female fitting	275864
3/8 inch VCO-type male fitting	275812
1.33 inch (NW16CF) ConFlat-type flange	275813
2.75 inch (NW35CF) ConFlat-type flange	275814
NW16KF flange	275816
NW25KF flange	275817
NW40KF flange	275818

**Replacement Gauges for Mini-Convectron Modules, Platinum Filament**

275572 - P #

**Flange/Fitting**

1/8 NPT / 1/2 inch tubulation	P	
1/4 inch VCR-type female	Q	
1/2 inch VCR-type female	R	
NW16KF	D	
NW25KF	E	
NW40KF	K	
1.33 inch (NW16CF) ConFlat-type flange	F	
2.75 inch (NW35CF) ConFlat-type flange	G	
15mm OD Tubulation	B	



See page 3 for an illustration of commonly used vacuum fittings and flanges. For other vacuum fittings, contact Brooks Customer Support.

## Convectron® Gauges (Series 275)

Description	Catalog Number
-------------	----------------

**Convectron Gauges**

For use with Series 316 & 375 Convectron Gauge Controllers and Series 307, 358 & 370 Ionization Gauge Controllers.

**Gold-plated Tungsten Filament**

1/8 NPT / 1/2 inch tubulation	275071
1/4 inch VCR®-type female fittings	275185
1/2 inch VCR-type female fittings	275282
3/8 inch VCO®-type male fitting	275233
1.33 inch (NW16CF) rotatable ConFlat®-type flange	275256
2.75 inch (NW35CF) rotatable ConFlat-type flange	275238
NW16KF flange (welded)	275203
NW25KF flange (welded)	275196
NW40KF flange (welded)	275316

**Platinum Filament**

275320 - P #

**Flange/Fitting**

1/8 NPT / 1/2 inch tubulation	P	↑
1/4 inch VCR-type female	Q	
1/2 inch VCR-type female	R	
NW16KF	D	
NW25KF	E	
NW40KF	K	
1.33 inch (NW16CF) ConFlat-type flange	F	
2.75 inch (NW35CF) ConFlat-type flange	G	
15mm OD Tubulation	B	

See page 3 for an illustration of commonly used vacuum fittings and flanges.  
For other vacuum fittings, contact Brooks Customer Support.

**Accessories**

<b>Zero pressure simulator</b>	275243
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Used to set zero vacuum point on all Convectron Controllers.

<b>Variable pressure simulator</b>	275244
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Used to calibrate all Convectron Controllers throughout the pressure range.

## Convectron® Gauge Controller (Series 375)

Description	Catalog Number
-------------	----------------

**Controller for a Convectron Gauge (CE Marked)**

Operating Power 12 to 24 Vdc (power supply and cable are not included – see Power Supplies, below)

Choose one of the basic controllers and add the options below to create your catalog number and determine the price. See the example below. Convectron Gauges are listed on page 12.

**1/8 DIN, panel mount with digital display**

**Interface options (Slot X):**

- None
- RS-232
- RS-485/422

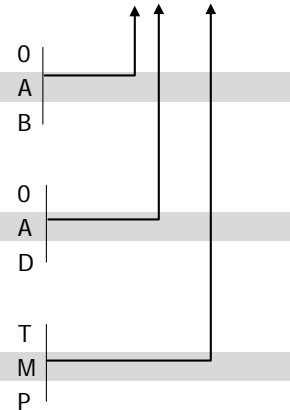
**Setpoint option (Slot Y):**

- None
- 2 setpoint relays
- 4 setpoint relays

**Measurement units:**

- Torr
- mbar
- Pa

375001 - # # - #



**Example:** To order a Convectron Gauge Controller with digital display, RS-232 interface, 2 setpoints, and measurement units displayed in Torr, select catalog number 375001-AA-T

**Power Supplies:**

**North American 115 Vac wall mount power supply,UL Listed**

375006

**CE Compliant, Universal power supply**

375007 - #

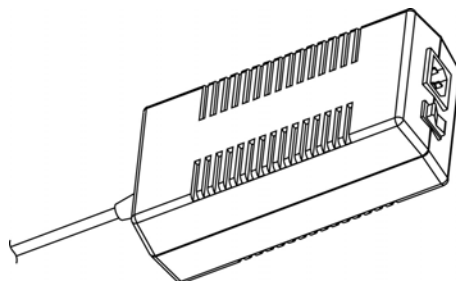
Select the desired power cord plug type, below.

See page iii at the front of this price list for illustrations of the power cord connectors.

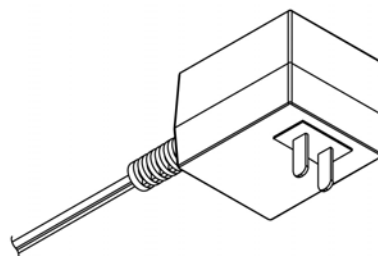
- North America 115 Vac
- North America 240 Vac
- Universal Europe 220 Vac
- United Kingdom 240 Vac

- 1
- 2
- 3
- 4

**Example:** To order a power supply and power cord for Universal Europe 220 Vac, select catalog number 375007-3



375007-#  
CE Compliant, Universal Supply



375006  
North American Wall Mount Supply

**Convectron® Gauge Controller (Series 375) (Continued)**

Description	Catalog Number
<b>Option Cards (for field installation)</b>	
RS-232 Interface	375002
RS-485/422 Interface	375003
2 setpoint relays	375005
<b>Convectron Gauge Cables</b>	
10 feet (3 meters)	375012-10
25 feet (7.6 meters)	375012-25
50 feet (15.2 meters)	375012-50
100 feet (30.5 meters)	375012-100
200 feet (61 meters)	375012-200
500 feet (152.4 meters)	375012-500
<b>Accessories</b>	
Panel to adapt Series 375 to fit into Series 275 opening	375031
Adapter to use a Series 275 cable assembly	375032
Kit to adapt a 375 to fit into a 275 opening using the 275 cable assembly. Includes panel and adapter cable.	375033

## Series 316 Vacuum Gauge Controllers

Description	Catalog Number
-------------	----------------

### Controller with 3-line display

Choose one of the basic controllers and add the options below to create your catalog number and determine the price. See the example below. Convectron® Gauges are listed on page 12; Thermocouple gauges are listed below and on page 26.

#### Configured for Convectron Gauge on Channel A

Half-rack mount	316501 - # # # - # #
Left mount for 19-inch rack	316502 - # # # - # #
Center mount for 19-inch rack	316503 - # # # - # #

#### Configured for Thermocouple Gauge on Channel A

Half-rack mount	316505 - # # # - # #
Left mount for 19-inch rack	316506 - # # # - # #
Center mount for 19-inch rack	316507 - # # # - # #

#### Interface Options (Slot X):

None	0
RS-232	A
RS-485	B
IEEE-488	C

#### Gauge Options (Slot Y):

None	0
Dual Convectron	1
Convectron / Capacitance Diaphragm	2
Dual Thermocouple	3

#### Setpoint Options (Slot Z):

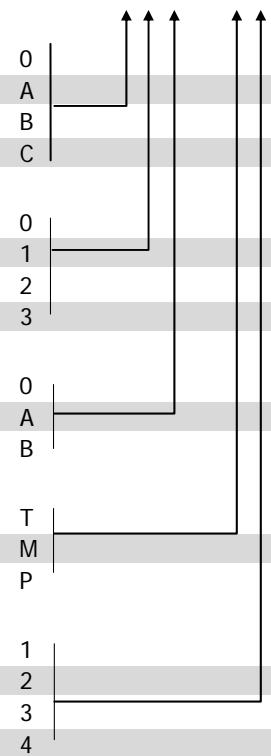
None	0
2 setpoint relays for channel A	A
6 setpoint relays, 2 per channel	B

#### Display Options - Measurement units

Torr	T
mbar	M
Pa	P

#### Power Cord Options:

North America 115V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4



**Example:** To order a Series 316 Vacuum Gauge Controller with pressure readout for Convectron Gauges, half-rack mount, RS-232 interface, dual Convectron Gauge operation, 2 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 316501-A1A-T1

### Thermocouple Gauges

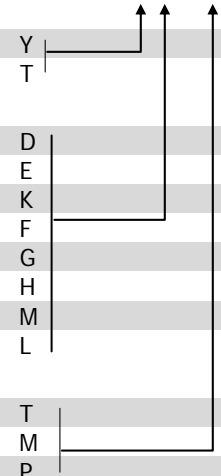
DV6-R, with metal alignment key (the metal thermocouple body is brazeable Monel)	270006
DV6-M, with plastic alignment key	270006-1

## Series 316 Vacuum Gauge Controllers (Continued)

Description	Catalog Number
<b>Option Cards (for field installation)</b>	
RS-232 computer interface	316021
RS-485 computer interface	316066
IEEE-488 computer interface	316022
Dual Convector® Gauge, channels B and C	316016
Convector Gauge/capacitance diaphragm, channels B and C	316026
Dual thermocouple gauge, channels B and C	316018
Process control with 2 setpoint relays for channel A	316019
Process control with 6 setpoint relays, 2 per channel	316020
<b>Optional Installation Rack-Mount Hardware (for field installation)</b>	
Control unit on the left or right side for 19-inch rack	307010
Control unit in the center for 19-inch rack	307011
2 control units side-by-side for 19-inch rack	307021
<b>Cables for:</b>	
<b>Single Convector Gauge</b>	
10 feet (3 meters)	316007
25 feet (7.6 meters)	316008
50 feet (15.2 meters)	316009
<b>Dual Convector Gauges</b>	
10 feet (3 meters)	303040-10
25 feet (7.6 meters)	303040-25
50 feet (15.2 meters)	303040-50
100 feet (30.5 meters)	303040-100
200 feet (61 meters)	303040-200
<b>Single thermocouple gauge</b>	
10 feet (3 meters)	316011
25 feet (7.6 meters)	316012
50 feet (15.2 meters)	316013
<b>Dual thermocouple gauges</b>	
10 feet (3 meters)	307054
25 feet (7.6 meters)	307055
50 feet (15.2 meters)	307056
<b>Convector Gauge / capacitance diaphragm gauge cables</b>	
10 feet (3 meters)	307027
25 feet (7.6 meters)	307028
50 feet (15.2 meters)	307029
<b>IEEE-488</b>	
3.3 feet (1 meter)	303042
6.6 feet (2 meters)	303043
13.2 feet (4 meters)	303044

## Micro-Ion® Modules (Series 354)

Description	Catalog Number
<b>Micro-Ion Modules (CE Marked)</b>	
Choose one of the basic modules and add the options below to create your catalog number and determine the price. See the example below. Power supply and cable are not included.	
<b>Analog output, no setpoint relays</b>	
No digital display	354001 - # # - #
3-digit display	354002 - # # - #
<b>RS-485 interface, 1 setpoint relay</b>	
No digital display (Torr only)	354005 - # # - T
<b>DeviceNet™ interface, 2 setpoint relays</b>	
No digital display	354009 - # # - #
3-digit display	354006 - # # - #
<b>Filaments:</b>	
dual yttria-coated iridium	Y
dual tungsten	T
<b>Flange/Fitting:</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1.33 inch (NW16CF) Conflat®-type	F
2.75 inch (NW35CF) Conflat-type	G
1/2 inch VCR®-type male	H
NW16L	M
40KFL	L
<b>Measurement units:</b>	
Torr	T
mbar	M
Pa	P

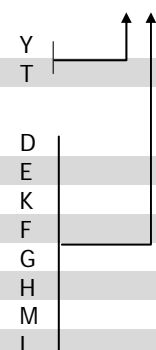


**Example:** To order a Micro-Ion DeviceNet Module with 3-digit display, dual yttria-coated iridium filaments, NW25KF fitting, and display in Torr, select catalog number 354006-YE-T

### Replacement gauges for Micro-Ion Modules

Choose the options below to create your catalog number.

<b>Replacement gauge</b>	354003 - # #
<b>Filament:</b>	
dual yttria-coated iridium	Y
dual tungsten	T
<b>Flange/Fitting:</b>	
NW16KF	D
NW25KF	E
NW40KF	K
1.33 inch (NW16CF) ConFlat-type	F
2.75 inch (NW35CF) ConFlat-type	G
1/2 inch VCR-type male	H
NW16L	M
40KFL	L



**Example:** To order a replacement gauge with dual yttria-coated iridium filaments and NW25KF fitting, select catalog number 354003-YE

**Accessory Power Supply for DeviceNet Version Only (CE Compliant)**

**DeviceNet Power Supply**

347039 - #

North American 115V	1	
North American 240V	2	
Universal Europe 220V	3	
United Kingdom 240V	4	

## Micro-Ion® Vacuum Gauges (Series 355)

Description

Catalog Number

**Micro-Ion Gauges (Not for use with Series 354 Micro-Ion Modules.)**

Choose the options below to create your catalog number. See the example below.

**Gauges**

355001 - # #

**Filament:**

dual yttria-coated iridium

Y

dual tungsten

T

**Flange/Fitting:**

3/4 inch port

A

15 mm port

B

18 mm port

C

1 inch port

J

NW16KF flange

D

NW25KF flange

E

NW 40KF flange

K

1.33 inch (NW16CF) ConFlat®-type flange

F

2.75 inch (NW35CF) ConFlat-type flange

G

1/2 inch VCR®-type male fitting

H

**Example:** To order a Micro-Ion Gauge with dual yttria-coated iridium filaments and NW25KF fitting, select catalog number 355001-YE

**Cables for Micro-Ion Gauges**

10 feet (3 meters)

358011-10

25 feet (7.6 meters)

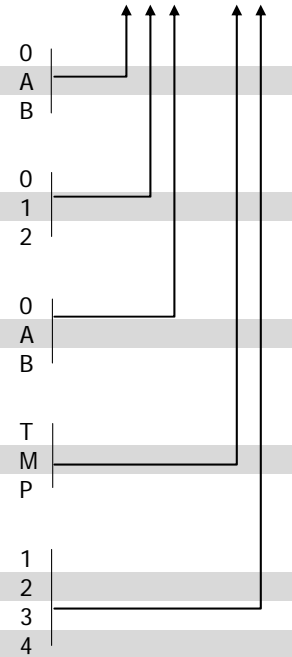
358011-25

50 feet (15.2 meters)

358011-50

## Micro-Ion® Gauge Controller (Series 358)

Description	Catalog Number
<b>Controller, for a Micro-Ion Gauge, with 3-line display, electron bombardment degas, and remote input/output interface (CE Marked<sup>1</sup>)</b>	
Choose one of the basic controllers and add the options below to create your catalog number and determine the price. See the example below. Micro-Ion Gauges are listed on page 18, Convector Gauges are listed on page 12.	
<b>Half-rack mount</b>	358501 - # # # - # #
<b>Left mount for 19-inch rack</b>	358502 - # # # - # #
<b>Center mount for 19-inch rack</b>	358503 - # # # - # #
<b>Interface Options (Slot X):</b>	
None	0
RS-232	A
RS-485/422	B
<b>Gauge Options (Slot Y):</b>	
None	0
Dual Convector	1
<b>Capacitance Manometer/Convector Gauge<sup>1</sup></b>	2
<b>Setpoint Options (Slot Z):</b>	
None	0
2 setpoint relays for Micro-Ion Gauge	A
6 setpoint relays, 2 per channel	B
<b>Display Options - Measurement units:</b>	
Torr	T
mbar	M
Pa	P
<b>Power Cord Options:</b>	
North America 115 V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4



**Example:** To order a Series 358 Micro-Ion Gauge Controller with half-rack mount, RS-485 interface, dual Convector Gauge operation, 6 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 358501-B1B-T1

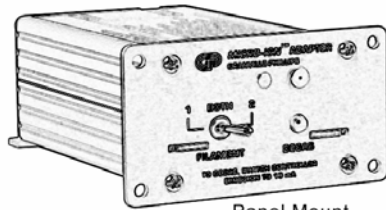
**Notes:** 1. Capacitance Manometer/Convector® Gauge option is not CE Marked.

## Micro-Ion® Gauge Controller (Series 358) (Continued)

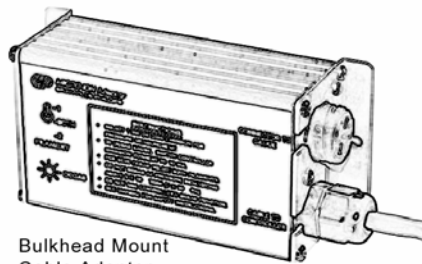
Description	Catalog Number
<b>Option Cards (for field installation)</b>	
RS-485/422 computer interface	358006
RS-232 computer interface	358007
Dual Convectron® Gauge module	358002
Process control with 2 setpoint relays for ionization gauge	358004
Process control with 6 setpoint relays, 2 per channel	358003
<b>Optional Rack-mount Installation Hardware (for field installation)</b>	
Control unit on the left or right side for 19-inch rack	370010
Control unit in the center for 19-inch rack	370011
2 control units side-by-side for 19-inch rack	370021
<b>Cables for:</b>	
<b>Micro-Ion Gauges</b>	
10 feet (3 meters)	358011-10
25 feet (7.6 meters)	358011-25
50 feet (15.2 meters)	358011-50
<b>Dual Convectron Gauges</b>	
10 feet (3 meters)	303040-10
25 feet (7.6 meters)	303040-25
50 feet (15.2 meters)	303040-50
100 feet (30.5 meters)	303040-100
200 feet (61 meters)	303040-200
<b>Capacitive Manometer/Convectron Gauges</b>	
10 feet (3 meters)	307027
25 feet (7.6 meters)	307028
50 feet (15.2 meters)	307029

## Cable Adapters for Micro-Ion® Gauges

Description	Catalog Number
<b>For Series 303, 307, 330, 338, 340, &amp; 350 Controllers</b> (requires a separate Micro-Ion Gauge cable – see below)	
Panel mount	355002
Bulkhead mount	355003
Collector cable extender (for use with remote mount power supplies on Series 307 Controllers)	355005
<b>For Varian SenTorr™ and Multi-Gauge™ Controllers</b> (requires a separate Micro-Ion Gauge cable–see below)	
Panel mount	355007
Bulkhead mount	355008



Panel Mount  
Cable Adapter



Bulkhead Mount  
Cable Adapter

## Stabil-Ion® Modules (Series 347)

Description	Catalog Number
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### Stabil-Ion Modules

Select an output configuration, gauge filament type, gauge type, and measurement units to create the appropriate catalog number and determine the price (see the example below).

**Analog output, no relays** <sup>1</sup> 347054 - Y # - T

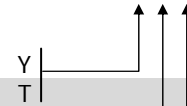
**DeviceNet™ interface (CE Marked), no display** 347031 - # # - #

**DeviceNet interface (CE Marked), digital display** 347032 - # # - #

**Gauge Filament:** <sup>3, 4</sup>

Yttria-coated iridium

Tungsten



**Gauge Type:** <sup>2, 4</sup>

Extended Range

Ultra-High Vacuum (UHV)

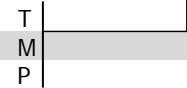


**Measurement units:**

Torr

Mbar

Pa



**Example:** To order a Stabil-Ion Module with analog output, extended range gauge with yttria-coated filaments, and display in Torr, select catalog number 347054-YE-T.

### Accessory Power Supply for DeviceNet Version Only (CE Marked)

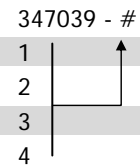
**DeviceNet Power Supply**

North American 115V

North American 240V

Universal Europe 220V

United Kingdom 240V



- Notes:**
1. Analog modules available in Torr measurement units only.
  2. Tungsten filament **not** available in Analog versions.
  3. All gauges come with a 2.75 ConFlat® fitting.

## Stabil-Ion® Gauge Controller (Series 370)

Description	Catalog Number
<b>Stabil-Ion Gauge with dual yttria-coated iridium filaments and Memory Module</b>	
<b>Extended Range Gauge</b>	370120
<b>UHV Range Gauge</b>	370121

**Controller, for a Stabil-Ion Gauge, with 3-line display, electron bombardment degas, sequential operation of a second ion gauge, and remote input/output interface (CE Marked)**

Choose one of the basic controllers and add the options below to create your catalog number and determine the price. See the example below. Convectron® Gauges are listed on page 12; Stabil-Ion Gauges are listed above.

<b>Left mount, side-by-side with power supply for 19-inch rack</b>	370501 - # # # - # #
<b>Half-rack mount, remote power supply</b>	370502 - # # # - # #
<b>Interface Options (Slot X):</b>	
None	0
RS-232	A
RS-485	B
IEEE-488	C
<b>Gauge Options (Slot Y):</b>	
None	0
Dual Convectron	1
Convectron/Capacitance Manometer	2
<b>Setpoint Options (Slot Z):</b>	
None	0
2 setpoint relays for Stabil-Ion Gauge	A
6 setpoint relays, 2 per channel	B
<b>Display Options - Measurement units:</b>	
Torr	T
mbar	M
Pa	P
<b>Power Cord Options:</b>	
North America 115 V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4

**Example:** To order a Series 370 Stabil-Ion Gauge Controller and power supply mounted side-by-side for 19-inch rack, IEEE-488 interface, dual Convectron Gauge operation, 6 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 370501-C1B-T1

**Cables for:**

<b>Convectron Gauge / capacitance diaphragm gauge</b>	
10 feet (3 meters)	307027
25 feet (7.6 meters)	307028
50 feet (15.2 meters)	307029
<b>IEEE-488</b>	
3.3 feet (1 meter)	303042
6.6 feet (2 meters)	303043
13.2 feet (4 meters)	303044

**Stabil-Ion® Gauge Controller (Series 370) (Continued)**

Description	Catalog Number
<b>Option Cards (for field installation)</b>	
RS-232 computer interface	370110
RS-485 computer interface	370150
IEEE-488 computer interface	370111
Dual Convector® Gauge	370106
Process control with 2 setpoint relays for ionization gauge	370108
Process control with 6 setpoint relays, 2 per channel	370107
<b>Optional Rack-mount Installation Hardware (for field installation)</b>	
Control unit on the left or right side for 19-inch rack	370010
Control unit in the center for 19-inch rack	370011
2 control units side-by-side for 19-inch rack	370021
1 or 2 power supplies for 19-inch rack	370008
<b>Cables for:</b>	
<b>Stabil-Ion Gauge, side-by-side mounting</b>	
10 feet (3 meters)	360116-10
25 feet (7.6 meters)	360116-25
50 feet (15.2 meters)	360116-50
100 feet (30.5 meters)	360116-100
200 feet (61 meters)	360116-200
<b>Stabil-Ion Gauge, remote mounting of power supply</b>	
10 feet (3 meters)	360117-10
25 feet (7.6 meters)	360117-25
<b>Dual Convector Gauges</b>	
10 feet (3 meters)	303040-10
25 feet (7.6 meters)	303040-25
50 feet (15.2 meters)	303040-50
100 feet (30.5 meters)	303040-100
200 feet (61 meters)	303040-200

## Bayard-Alpert Type Ionization Gauges (Series 274)

Description	Catalog Number
<b>Glass Tubulated Gauges</b>	
<b>Single thoria-coated iridium filament</b>	
3/4 inch Pyrex glass inlet port	274002
3/4 inch Kovar metal inlet port	274003
1 inch Pyrex glass inlet port	274005
1 inch Kovar metal inlet port	274006
15 mm Pyrex glass inlet port	274036
NW25KF flange with 1 inch port	274032
1.33 inch (NW16CF) non-rotatable, 3/4 inch port	274020
2.75 inch (NW35CF) non-rotatable, 3/4 inch port	274007
2.75 inch (NW35CF) non-rotatable, 1 inch port	274008
<b>Dual tungsten filaments</b>	
3/4 inch Pyrex glass inlet port	274012
3/4 inch Kovar metal inlet port	274013
1 inch Pyrex glass inlet port	274015
1 inch Kovar metal inlet port	274016
15 mm Pyrex glass inlet port	274037
1.33 inch (NW16CF) non-rotatable, 3/4 inch port	274021
2.75 inch (NW35CF) non-rotatable, 3/4 inch port	274017
2.75 inch (NW35CF) non-rotatable, 1 inch port	274018
<b>Nude Gauges</b>	
<b>Single thoria-coated iridium filament (resistive or electron bombardment degas)</b>	
NW40KF flange with pin guard/locking strain relief	274053
2.75 inch (NW35CF) non-rotatable	274028
2.75 inch (NW35CF) non-rotatable, pin guard/locking strain relief	274043
Replacement filament	274029
<b>UHV Nude Gauges</b>	
<b>Dual thoria-coated iridium filament (electron bombardment degas only)</b>	
NW40KF flange with pin guard/locking strain relief	274058
2.75 inch (NW35CF) non-rotatable	274023
2.75 inch (NW35CF) non-rotatable, pin guard/locking strain relief	274042
Replacement filaments	274025
<b>Dual tungsten filaments (electron bombardment degas only)</b>	
NW40KF flange	274050
NW40KF flange, pin guard/locking strain relief	274057
2.75 inch (NW35CF) non-rotatable	274022
2.75 inch (NW35CF) non-rotatable, pin guard/locking strain relief	274041
Replacement filaments	274024
<b>Accessories</b>	
<b>Glass tubulated test gauge</b> with thoria-coated iridium filament, pumped down to approximately $10^{-5}$ Torr and sealed off. <b>NOT</b> to be used as a pressure reference.	274031

## Series 307 Vacuum Gauge Controllers

Description	Catalog Number
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**Controller, for Series 274 Bayard-Alpert gauges, with 3-line display, sequential operation of a second ionization gauge, and remote input/output interface**

Choose one of the basic controllers and add the options below to create your catalog number and determine the price. See the example below. Ionization gauges are listed on page 7; Convector® Gauges are listed on page 12; Thermocouple gauges are listed on pages 15, 26.

**Configured for Series 274 glass tubulated or nude (not UHV) Bayard-Alpert gauges with resistive degas**

Left mount, side-by-side with power supply for 19-inch rack	307502 - # # # - # #
Half-rack mount, remote power supply	307501 - # # # - # #

**Configured for Series 274 UHV nude Bayard-Alpert gauges with electron bombardment degas, UHV electrometer (reads to  $2 \times 10^{-11}$  Torr)**

Left mount, side-by-side with power supply for 19-inch rack	307508 - # # # - # #
Half-rack mount, remote power supply	307507 - # # # - # #

**Interface Options (Slot X):**

None	0
RS-232	A
RS-485	B
IEEE-488	C
Linear Analog Output	D

**Gauge Options (Slot Y):**

None	0
Dual Convector	1
Convector / Capacitance Diaphragm	2
Dual Thermocouple	3

**Setpoint Options (Slot Z):**

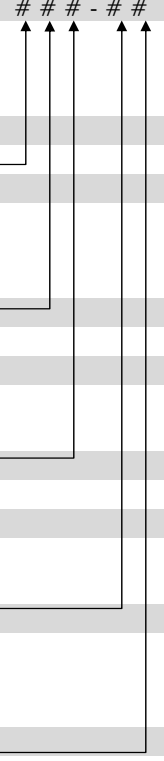
None	0
2 setpoint relays for ion gauge	A
6 setpoint relays, 2 per channel	B
6 setpoint relays, user configurable	C

**Display Options - Measurement units:**

Torr	T
mbar	M
Pa	P

**Power Cord Options:**

North America 115 V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4



**Example:** To order a Series 307 Vacuum Gauge Controller with half-rack mount, remote power supply, resistive degas, linear analog output, dual Convector Gauge operation, 6 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 307501-D1B-T1

## Series 307 Vacuum Gauge Controllers (Continued)

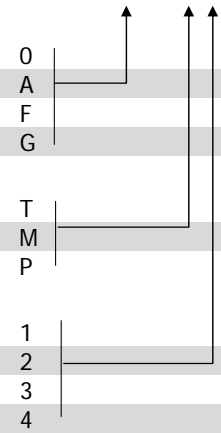
Description	Catalog Number
<b>Option Cards (for field installation)</b>	
RS-232 computer interface	307019
IEEE-488 computer interface	307020
Linear analog output for thermocouple and ionization gauges	307100
Dual Convector® Gauge	307013
Convector Gauge/capacitance diaphragm gauge	307026
Dual Thermocouple Gauge	307014
Process control with 2 setpoint relays for ionization gauge	307018
Process control with 6 setpoint relays, 2 per channel	307017
Process control with 6 setpoint relays, user configurable	307269
Remote control interface	307012
<b>Optional Installation Rack-Mount Hardware (for field installation)</b>	
Power supply and control unit side-by-side for 19-inch rack	307009
Control unit on the left or right side for 19-inch rack	307010
Control unit in the center of 19-inch rack	307011
2 control units side-by-side for 19-inch rack	307021
1 or 2 power supplies for 19-inch rack	307008
Power supply in half-rack panel	307114
<b>Thermocouple Gauges</b>	
DV6-R, with metal alignment key (the metal thermocouple body is brazeable Monel)	270006
DV6-M, with plastic alignment key	270006-1
<b>Cables for Tubulated Glass Ionization Gauges</b>	
<b>For side-by-side mounting</b>	
10 feet (3 meters)	307042
25 feet (7.6 meters)	307043
50 feet (15.2 meters)	307044
<b>For remote mounting of power supply</b>	
10 feet (3 meters)	307030
25 feet (7.6 meters)	307031
50 feet (15.2 meters)	307032

## Series 307 Vacuum Gauge Controllers (Continued)

Description	Catalog Number
<b>Cables for Nude Ionization Gauges</b>	
<b>With push-on pins, side-by-side mounting</b>	
10 feet (3 meters)	307046
25 feet (7.6 meters)	307047
50 feet (15.2 meters)	307048
<b>With push-on pins, remote mounting of power supply</b>	
10 feet (3 meters)	307034
25 feet (7.6 meters)	307035
50 feet (15.2 meters)	307036
<b>With pin guard/locking strain relief for electron bombardment degas, side-by-side mounting</b>	
10 feet (3 meters)	307046-CE*
25 feet (7.6 meters)	307047-CE*
50 feet (15.2 meters)	307048-CE*
<b>With pin guard/locking strain relief for electron bombardment degas, remote mounting of power supply</b>	
10 feet (3 meters)	307034-CE*
25 feet (7.6 meters)	307035-CE*
50 feet (15.2 meters)	307036-CE*
<b>With pin guard/locking strain relief for resistive degas, side-by-side mounting</b>	
10 feet (3 meters)	307046-CR*
25 feet (7.6 meters)	307047-CR*
50 feet (15.2 meters)	307048-CR*
<b>With pin guard/locking strain relief for resistive degas, remote mounting of power supply</b>	
10 feet (3 meters)	307034-CR*
25 feet (7.6 meters)	307035-CR*
50 feet (15.2 meters)	307036-CR*
* Bakeable to 150°C. For higher temperature bakeable cables contact Brooks Customer Support.	
<b>Cables for:</b>	
<b>Dual Convector Gauges</b>	
10 feet (3 meters)	303040-10
25 feet (7.6 meters)	303040-25
50 feet (15.2 meters)	303040-50
100 feet (30.5 meters)	303040-100
200 feet (61 meters)	303040-200
<b>Dual thermocouple gauges</b>	
10 feet (3 meters)	307054
25 feet (7.6 meters)	307055
50 feet (15.2 meters)	307056
<b>Convector Gauge / capacitance diaphragm gauge</b>	
10 feet (3 meters)	307027
25 feet (7.6 meters)	307028
50 feet (15.2 meters)	307029
<b>IEEE-488</b>	
3.3 feet (1 meter)	303042
6.6 feet (2 meters)	303043
13.2 feet (4 meters)	303044

## Series 350 UHV Ionization Gauge Controllers

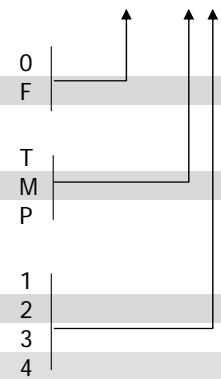
Description	Catalog Number
<b>Controller, for a Series 274 UHV nude Bayard-Alpert gauge, with 1-line display, electron bombardment degas, and remote input/output interface (CE Marked)</b> UHV Ionization gauges are listed on page 18.	
<b>Half-rack mount</b>	350501 - # - # #
<b>Left mount for 19-inch rack</b>	350502 - # - # #
<b>Center mount for 19-inch rack</b>	350503 - # - # #
<b>Options:</b>	
None	0
RS-232	A
RS-232 or RS-485 switchable with 4 setpoint relays	F
2 setpoint relays for ion gauge	G
<b>Display Options - Measurement units:</b>	
Torr	T
mbar	M
Pa	P
<b>Power Cord Options:</b>	
North America 115 V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4



**Example:** To order a Series 350 UHV Ionization Gauge Controller with 3-line display, half-rack mount, RS-232 or RS-485 switchable interface with 4 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 350501-G-T1

**Controller, for a Series 274 UHV nude Bayard-Alpert gauge and dual Convectron® Gauge operation, with 3-line display, electron bombardment degas, and remote input/output interface (CE Marked)**  
 UHV Ionization gauges are listed on page 22; Convectron Gauges are listed on page 12.

<b>Half-rack mount</b>	350507 - # - # #
<b>Left mount for 19-inch rack</b>	350508 - # - # #
<b>Center mount for 19-inch rack</b>	350509 - # - # #
<b>Options:</b>	
None	0
RS-232 or RS-485 switchable with 4 setpoint relays	F
<b>Display Options - Measurement units:</b>	
Torr	T
mbar	M
Pa	P
<b>Power Cord Options:</b>	
North America 115 V	1
North America 240 V	2
Universal Europe 220 V	3
United Kingdom 240 V	4



**Example:** To order a Series 350 UHV Ionization Gauge Controller with 3-line display, half-rack mount, RS-232 or RS-485 switchable interface with 4 setpoint relays, display in Torr, and North America 115 V power cord, select catalog number: 350507-F-T1

## Series 350 UHV Ionization Gauge Controllers (Continued)

Description	Catalog Number
<b>Option Cards for Controller with 1-line display (for field installation)</b>	
RS-232 computer interface	350003
RS-485 with 4 setpoint relays for ion gauge	350027
2 setpoint relays for ion gauge	350002
<b>Option Card for Controller with 3-line display (for field installation)</b>	
RS-232 or RS-485 switchable interface with 4 setpoint relays	350027
<b>Optional Installation Hardware (for field installation)</b>	
<b>Rack-mount kits</b>	
Control unit on the left or right side for 19-inch rack	307010
Control unit in the center for 19-inch rack	307011
2 control units side-by-side for 19-inch rack	307021
<b>Cables wired with internal collector cable and dual-filament switching</b>	
<b>Nude ionization gauges with push-on pins</b>	
10 feet (3 meters)	350004
25 feet (7.6 meters)	350005
50 feet (15.2 meters)	350006
<b>Nude ionization gauges with pin guard/locking strain relief</b>	
10 feet (3 meters)	350004-C*
25 feet (7.6 meters)	350005-C*
50 feet (15.2 meters)	350006-C*
<b>Cables for:</b>	
<b>Dual Convector® Gauges</b>	
10 feet (3 meters)	303040-10
25 feet (7.6 meters)	303040-25
50 feet (15.2 meters)	303040-50
100 feet (30.5 meters)	303040-100
200 feet (61 meters)	303040-200

\* Bakeable to 150°C. For higher temperature bakeable cables contact Brooks Customer Support.

### Series 203 Variable Leak Valves

Description	Catalog Number
<b>Manual Variable Leak Valves</b>	
1/4 inch stainless steel tubulation on both ports, no flanges	203019 - # #
1.33 inch (NW16CF) ConFlat®-type flanges on both ports	203021 - # #
2.75 inch (NW35CF) ConFlat-type flanges on both ports	203017 - # #
ConFlat-type flanges, 2.75 inch (NW35CF) on port A and 1.33 inch (NW16CF) on port B	203038 - # #
1/4 inch VCR®-type female fittings on both ports	203036 - # #
1/4 inch VCO®-type female fittings on both ports	203041 - # #

**Bend styles for Series 203 Leak Valves** (see the illustration below):

Style 01 (See note 1 below)	01
Style 02	02
Style 03 (See note 2 below)	03
Style 04	04
Style 05 (See note 2 below)	05

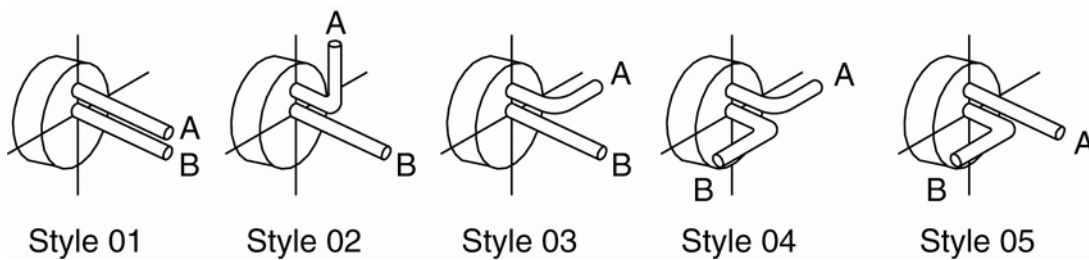
**Example:** To order a Series 203 Variable Leak Valve with 1.33 inch ConFlat fittings on both ports and tubulation bend styles 03, select catalog number: 203021-03

**Replacement Valve Bodies**

1/4 inch stainless steel tubulation on both ports, no flanges	203014 - # #
1.33 inch (NW16CF) ConFlat-type flanges on both ports	203022 - # #
2.75 inch (NW35CF) ConFlat-type flanges on both ports	203018 - # #
2.75 inch (NW35CF) on port A and 1.33 inch (NW16CF) on port B	203039 - # #
1/4 inch VCR-type female fittings on both ports	203037 - # #
1/4 inch VCO-type female fittings on both ports	203042 - # #

**Bend styles for Series 203 Leak Valves** (see the illustration below):

Style 01 (See note 1 below)	01
Style 02	02
Style 03 (See note 2 below)	03
Style 04	04
Style 05 (See note 2 below)	05



Bend Styles for Series 203 Valves

- Notes:**
1. Bend style 01 is only available for catalog numbers 203019 and 203014.
  2. Bend styles 03 and 05 are not available with catalog numbers 203017 and 203018.
  3. Use Center Port B as the inlet port if the inlet pressure is over 25 psig.

<b>Bakeout Clamp for 203 Leak Valve</b>	006771
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## Series 204 One-inch Gold Seal Valve, Ultra-high Vacuum Valves

Description	Catalog Number
<b>Right Angle Manual Valves</b>	
1 inch stainless steel tubulation on both ports, no mounting bracket	204013
Mounting bracket and 1 inch stainless steel tubulation on both ports	204012
2.75 inch (NW35CF) ConFlat®-type flanges on both ports, no mounting bracket	204011
Mounting bracket and 2.75 inch (NW35CF) ConFlat-type, flanges on both ports	204010
<b>Replacement Parts</b>	
Valve driver assembly	204002
Replacement nosepiece	204008
Replacement nosepiece kit with installation tweezers	204014
Valve body only with 1 inch stainless steel tubulation on both ports	204015
Valve body only with 2.75 inch (NW35CF) ConFlat-type, flanges on both ports	204020

## List of Instruction Manuals

Description (Serial numbers)	Catalog Number
Manual Leak Valve, Series 203	203026
Right Angle Valve, Series 204	204018
Mini-Convectron® Modules with Digital Display, Series 275	275512
Mini-Convectron Modules with DeviceNet™ Interface, Series 275	275563
Mini-Convectron Modules, Series 275 (for Catalog Numbers 275800 - 275809)	275830
Mini-Convectron Modules (Linear), Series 275 (for Catalog Numbers 275850 - 275859)	275835
Mini-Convectron Modules, Series 275 (for Catalog Numbers 275870 - 275879)	275836
Mini-Convectron Modules (Digital Display), Series 275 (for Catalog Numbers 275904 - 275925)	275892
Mini-Convectron Modules (RS-485), Series 275	275955
Series 307 Vacuum Gauge Controller	307024
Series 316 Vacuum Gauge Controller	316005
Series 330 Ionization Gauge Controller	330004
Series 332 Vacuum Gauge Controller	332004
Series 338 Vacuum Gauge Controller	338003
Series 340 Vacuum Gauge Controller	340005
Series 342/343 Vacuum Gauge Module	342030
Series 342/343 Benchtop Controller	342028
Series 350 UHV Ionization Gauge Controller	350010
Micro-Ion® Module with Analog Output	354004
Micro-Ion® Module with RS-485 Digital Interface, Series 354	354008
Micro-Ion Module with DeviceNet Interface, Series 354	354020
Micro-Ion Module DeviceNet Programmer's Guide, Series 354	354022
Micro-Ion Plus Module, Analog/RS-485 Output, Series 356	356007
Micro-Ion Plus Module, DeviceNet Output, Series 356	356010
Series 358 Micro-Ion Gauge Controller	358013
Series 360 Stabil-Ion® Gauge Controller	360119
Series 370 Stabil-Ion Gauge Controller	370119
Series 375 Convectron Gauge Controller	375015
Series 385 Convectron ATM Module, Analog/RS-485	385004
Series 385 Convectron ATM Replacement Gauge	385005
Series 385 Convectron ATM Module, DeviceNet	385008
Series 390 Micro-Ion ATM Module - RS-485/Analog	390001
Series 390 Micro-Ion ATM Module - RS-485/Analog, DeviceNet	390002
Series 390 Micro-Ion ATM with RS-485/Analog Output Installation Instructions	390006
Series 390 Micro-Ion ATM with RS-485/Analog, DeviceNet Output Installation Instructions	390008
Series 390 Micro-Ion ATM Gauge Removal and Replacement Procedure	390400
Series 392 Micro-Ion Plus Analog/RS-485 Module	392001
Series 392 Micro-Ion Plus Analog/RS-485, DeviceNet Module	392002
Series 392 Micro-Ion Plus Analog/RS-485 Installation Instructions	392003
Series 392 Micro-Ion Plus Analog/RS-485, DeviceNet Installation Instructions	392005
Series 392 Micro-Ion Plus Gauge Removal and Replacement Procedure	392400

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Brooks GUTS Support at 1-800-367-4887.