

NEW

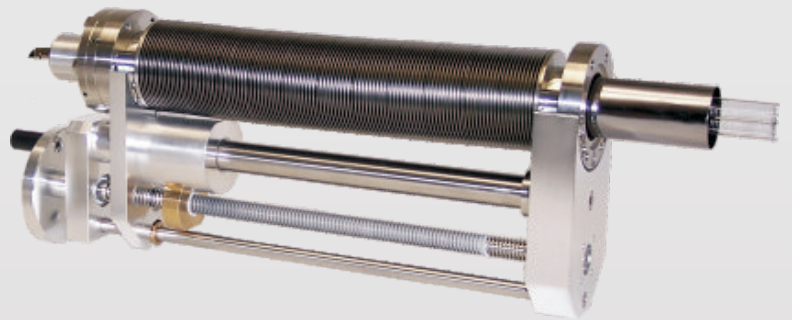


**10<sup>-n</sup>**  
**mbar** VACOM

## VACOM-BFM

Beam flux monitor system for beam equivalent pressure measurement in MBE applications

- Surface reduced by up to 70%
- No virtual leaks
- Fast, easy system integration



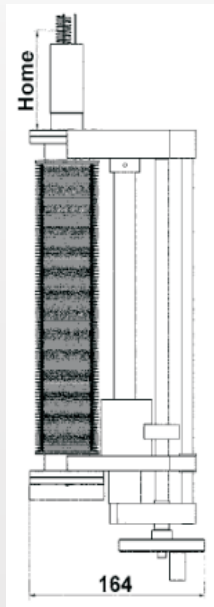
Gauge BX35 with linear shift mechanism and Ta shielding tube



Controller MVC-3 B

Gauge BX35  
(Ta shielding tube removed)

## Technical data

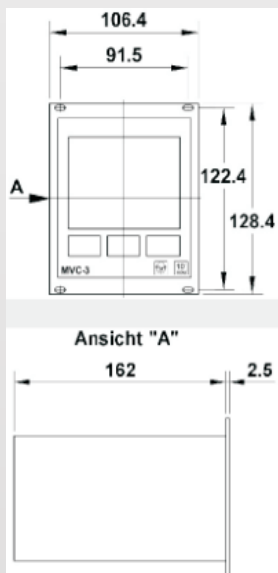


### BX35 Gauge

■ Measurement range	1E-8 ... 1 Pa   1E-10 ... 1E-2 mbar   1E-10 ... 7.5E-3 Torr
■ Measurement principle	hot cathode ionization (Bayard-Alpert)
■ Reproducibility	±5 % of reading
■ Max. bakeout temperature	220 °C
■ Filaments (cathodes)	Y2O3 coated Ir
■ Number of filaments	2
■ Ionization gauge degas	electron bombardment degas
■ Materials in vacuum	stl. steel 316L, Ta, W, Y2O3 on Ir, glass ceramic, Au
■ Length	max. 600 mm, customized
■ Max. diameter	32 mm (except for flange)
■ Electrical connectors	special connector
■ Vacuum flange	DN40CF
■ Display and operating unit	MVC-3 B

### MVC-3 B Controller

■ Number of meas. channels	1
■ Display & measurement range	1E-10 ... 10 Pa   E-12 ... 0.1 mbar   1E-12 ... 0.075 Torr (display of ion current in Amps under progress)
■ Accuracy of electrometer	±1 % of reading
■ Measurement rate	50 / s
■ Units	mbar, Pa, Torr (switchable)
■ Display	LED (green), 1 line per channel (mantissa 4 digits, exponent 2 digits), unit, relay status, Fil1/Fil2
■ Display update rate	4 / s
■ Analog outputs	log linear, 0 ... 10 V, 0.625 V / decade
■ Setpoint relays	2 relays (SPDT), 30 VDC / 1 A
■ Digital control inputs	filament on/off, degas on/off
■ Operating elements	4 front keys
■ Interfaces	RS232 and RS485
■ Temperature range (operation)	5 ... 50 °C
■ Ion gauge Auto on/off	Auto off
■ Filament operating modes	automatic emission control (DC supply), Fil1/Fil2/auto
■ Electron bombardment degas	start via front keys, digital input or PC
■ Housing	aluminum, 1/4 x 19", 3 U
■ Protection class	IP 40
■ Power supply	100 ... 240 VAC, 50/60 Hz (max. 60 W)
■ Electrical connectors	IEC plug (AC), D-Sub mixed pin (gauge), D-Sub 25 pin (relays), D-Sub 9 pin (RS232, RS485), D-Sub 15 pin (analog & digital I/O)
■ Connectable passive gauges	BX35 BFM gauge, BARION® hot cathode ionization gauge
■ Gauge cable	dual shielding, length max. 15 m, bakeable to 220 °C



Order Code	Description	Home	Stroke
<b>VBX35-200H-075</b>	VACOM-BFM (gauge, controller, linear shift mechanism)	75	200
<b>VBX35-300H-100</b>	VACOM-BFM (gauge, controller, linear shift mechanism)	100	300

Order Code	Description
<b>BX35L15</b>	Cable for VBX35-..., 15 m
<b>BX35G</b>	Replacement gauge kit with filaments (Y2O3 coated Ir)
<b>BX35F</b>	Dual replacement filament (Y2O3 coated Ir)

## VACOM

### Vakuum Komponenten & Messtechnik GmbH

Gabelsbergerstrasse 9 ■ 07749 Jena ■ Germany  
 Tel. +49(0)3641 4275-0 ■ Fax +49(0)3641 4275-82  
 info@vacom-vacuum.com ■ www.vacom-vacuum.com

