9 Appendix

9.1 Technical information

Туре	
Vacuum controller	<i>VACUU·SELECT</i>
Software version	V1.07 / V1.00

9.1.1 Technical data

Technical data

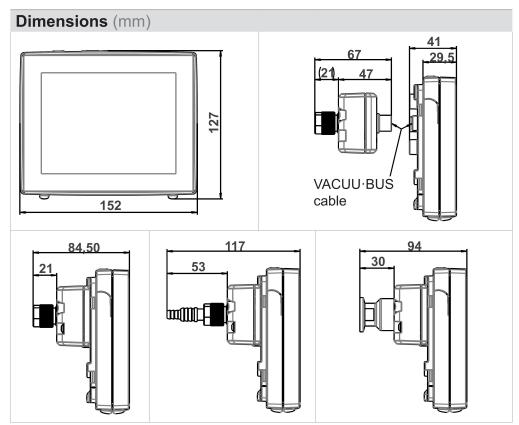
Ambient conditions		(US)
Working temperature	10-40 °C	50-104 °F
Storage/transport temperature	-10-60 °C	14-140 °F
Max. altitude	2000 m above sea level	6562 ft above sea level
Degree of contamination	2	
Protection class (IEC 60529)	IP 40	
Protection class (IEC 60529), front	IP 41	
Protection class (UL 50E)		Type 1
Protection class (UL 50E), front		Type 2
Relative humidity	30-85 %, non-cond	ensing
Prevent condensation or contamination from dust or liquids		
		•

Electrical data	
Nominal voltage	24 VDC
Controller output	5 W
Power supply via	VACUU·BUS
Device fuse on circuit board	Nano fuse 4 A/t

Interfaces	
Plug-in connector	VACUU·BUS
Ethernet (LAN)	Patch cable min. cat. 5e RJ45
USB port (1.0-2.0)	2x USB-A 2.0, max. 0.5 A per port

Connections	
VACUU·SELECT Sensor	Small flange KF DN 16
	Hose nozzle DN 6/10
	PTFE hose DN 8/10
Venting valve, optional	Silicone tube DN 4/6

Weights		(US)
Controller with sensor	745 g	1.64 lb
Controller without sensor	590 g	1.3 lb
Plug-in power supply	250 g	0.55 lb



Dimensions

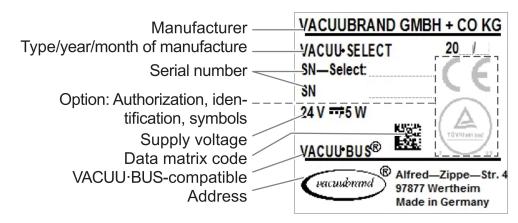
9.1.2 Rating plate



- ⇒ In the event of an error, make a note of the type and serial number on the rating plate.
- ⇒ When contacting our Service Department, please provide the type and serial number from the rating plate. This will allow us to provide you with specific support and advice for your device.

VACUU·SELECT rating plate, general

Data on rating plate



9.1.3 VACUU·SELECT Sensor (optional)

Wetted materials

Wetted materials

Component	Wetted materials
Sensor	Aluminum oxide ceramic, gold-coated (if applicable)
Measurement chamber	PPS
Small flange	PP
Sealing ring at the sensor	Chemically resistant fluoroelastomer
O-ring inside small flange	FKM
Hose nozzle	PP
Venting valve seal	FFKM
Optional: blind plugs without venting valve	Epoxy resin

Vacuum data

Vacuum data

Values		(US)
Measuring range (absolute)	1060–0.1 mbar	795–0.1 Torr
Accuracy of measure- ment	±1 mbar/hPa/Torr, ±1 digit, with VACUU·SELECT vacuum controller (after adjustment, constant temperature)	
Measuring principle	Ceramic diaphragm (all coated), capacitive, gas absolute pressure	_
Temperature coefficient	< ±0.15 mbar (hPa)/K	< ±0.11 Torr/K
Maximum admissible pressure, abs.	1.5 bar	1125 Torr
Maximum admissible media temperature (gas), non-explosive atmosphere:		
Short term (< 5 min)	80 °C	176 °F
Continuous operation	45 °C	113 °F
ATEX approval if the ATEX marking is shown on the rating plate Inner part (pumped gas- es)	II 3/- G Ex h IIC T4 G Internal Atm. only Tech.File: VAC-EX02	c X
Maximum admissible me	edia temperature (gas) [‹]	atmosphere:
Short term	40 °C	104 °F
Continuous operation	40 °C	104 °F