VC 10 Vacuum controller

Universal vacuum controller for a two-point calibration of multiple vacuum sources. It comes with a chemo resistant ceramic pressure sensor. The high-resolution TFT display ensures intuitive operation and navigation. The ventilation valve works even during a power outage and aerates the vacuum chamber. In addition to the manual mode, up to 10 programs can be saved, with up to 10 pressure/time sequences, even allowing for saving the last experiment run. It is possible to manage the experiment via labworldsoft (RS 232 interface) and to connect an external PT 1000 temperature sensor to measure the temperature of all applications. The knob also emergency stops the controller and aerates the vacuum chamber. The longevity of the valves is supported by the cleaning function which can be adjusted for every application. The operation of the vacuum controller is facilitated by a choice of languages (menu). The firmware of the device can be regularly updated with the free Firmware Update Tool (via USB).

Accessories: VC 10.300 Check valve, VC 10.400 Stand, PT 1000.60 Temperature sensor, stainless steel

Technical Data	
Connection diameter suction side [mm]	8
Connection diameter pressure side [mm]	8
Connection diameter venting side [mm]	8
Gas ballast valve	no
Input pressure min. [mbar]	1
Input pressure max. [mbar]	1050
Boiling point detection	yes
Solvent library	yes
Two-point control	yes
Analog speed vacuum control	yes
Display	TFT
Pressure unit / scale	mbar, hPa, mmHg, Torr
Vacuum sensor	yes
Vacuum sensor type	ceramic Al2O3
Pressure max. for pressure sensor [bar]	1.6
Measurement range (absolute) min. [mbar]	1
Measurement range (absolute) max. [mbar]	1100
Control range min. [mbar]	1
Control range max. [mbar]	1100
Resolution pressure [mbar]	1
Measurement uncertainty [mbar]	1
Medium temperature (gas) min. [°C]	5
Medium temperature (gas) max. [°C]	40
Vacuum valve	yes
Venting valve	yes
Condensate trap	no
Emission condenser	no
Connection for ext. temperature sensor	PT1000
Temperature unit	°C / °F
Temperature measuring range min. [°C]	-10
Temperature measuring range max. [°C]	200
Temperature measurement resolution [K]	1
Accuracy of temperature measurement [K]	±1
Timer	yes
Time setting min. [s]	1
Time setting max. [min]	6000
Two dot vacuum control interface	VC2.4
Vacuum speed control interface	MVP 10 digital
Material in contact with medium	Al2O3, PTFE, FPM, PPS
housing material	PBT
clean room qualified	no
explosion proofed	no
Fastening	stand / clamp
Fastening diameter [mm]	16
Dimensions (W x H x D) [mm]	95 x 150 x 110
Weight [kg]	1.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
USB interface	yes
Analog output	no
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	24
Power input standby [W]	2
DC Voltage [V=]	24
Current consumption [mA]	1000
Ident. No.	**0020005132**