

VD9

1 Channel Vacuum Display And Control Unit Absolute Pressure 1400 to 1×10^{-9} mbar

VD9 is an intelligent control unit for applications in apparatus and plant engineering or special equipment construction.

It offers two relay switches, one joint or two independent set points.

Compact metal EMC compatible 19inch cassette 14 HP x 3 RE.

A front foil protects the instrument from water splashing and can be easily cleaned.



Smartline

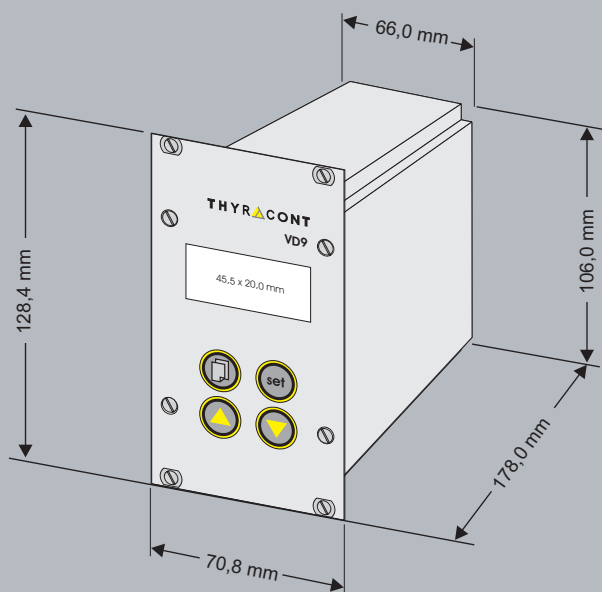
Typical Applications

- Industrial plant engineering
- Process automation
- Apparatus engineering, e. g. process control and documentation for quality assurance
- Mechanical engineering
- Packaging technology
- Chemical process engineering (vacuum mixers)

Benefits

- High contrast LCD display with background illumination
- Pressure display in mbar, Torr, hPa
- Universal switched mode power supply 95 - 265 VAC
- Easy to use
- 2 relay switches
- On-off or three-position control
- Control optionally with PI characteristic, continuous PI control output configurable
- Shielded 19" metal cassette with foil-protected front panel
- 1 channel controller, can be combined with 2 transducers to cover a wider range (e.g. 1400 - 1×10^{-3} mbar) providing a continuous pressure display
- Supports programming of set points via serial interface
- VacuGraph software: Documentation and evaluation of vacuum processes, programming set points and time based pressure profiles, remote control
- The controller is configured at the factory to customer's specification
- Versions made to customer's specification on request (e.g. analog set point adjustment)





Technical Data

Display	Alphanumeric LCD display, background illumination, 4 digits, 45 x 20 mm, floating point: 2 - 4 digits exponential, 2 digits mantissa, 1st. exponent
Display Refresh Rate	2 Hz (0.5 s)
Sample Rate	20 Hz (50 ms)
Power Supply	95 - 265 VAC, 50/60 Hz
Power Consumption	Max. 15 W incl. transducer
Fuse	0.8 A/T
Operating Temperature	+5...+50°C
Storage Temperature	-20...+60°C
Measuring Inputs	2 x 4 - 20 mA, SubD, 9-pole, female, for VSC42MA4, VSP52MA4 1 x 0 - 10 V Amphenol C91E, 6-pole, female, for VSP62, VSM72, VSH82
Control Outputs	2 x relay contact, potential free change over switches, Phoenix strip terminal 6-pole: 4 A / 250 VAC, 2 A / 45 VDC
Analog Output	0-10 V, 10 kΩ, jack plug, 2-pole
Serial Interface	RS232, SubD, 9-pole, female; from April 2009 on Mini-USB, type B, 5-pole, female
Protection Class	IP20
Weight	750 g

Product Codes

- **VD9S2**
19inch cassette 14 HP x 3 RU, RS232, analog output, 95 - 265 VAC

Complete Sets

- **VD92P** (1400 - 1 mbar)
VD9S2 + VSC42MA4 + cable 2 m
- **VD95P** (1400 - 1 x 10⁻³ mbar)
VD9S2 + VSC42MA4 + VSP52MA4 + 2 cables á 2 m
- **VD96P** (1000 - 1 x 10⁻⁴ mbar)
VD9S2 + VSP62MV + cable 2 m
- **VD96CFP** (1000 - 1 x 10⁻⁴ mbar)
VD9S2 + VSP62MVCF + cable 2 m
- **VD97P** (1000 - 5 x 10⁻⁹ mbar)
VD9S2 + VSM72MV + cable 2 m
- **VD97CFP** (1000 - 5 x 10⁻⁹ mbar)
VD9S2 + VSM72MVCF + cable 2 m
- **VD98P** (1000 - 1 x 10⁻⁹ mbar)
VD9S2 + VSH82MV + cable 2 m
- **VD98CFP** (1000 - 1 x 10⁻⁹ mbar)
VD9S2 + VSH82MVCF + cable 2 m

Accessories:

- **VGR**
VacuGraph software for windows
- **WUSB0002**
Interface cable USB, shielded, 2 m