



Smartline™ Vacuum Display and Control Unit

Absolute Pressure 1400 - 1×10^{-9} mbar (Torr)

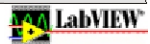
VD9

Intelligent control unit for your application in apparatus and plant engineering or specialty machinery.

Two relay switches, one joint or two independent setpoints.

Compact metal 19inch cassette
14TE x 3HE.

A frontfoil protects the instrument from splashing water, soiling can easily be removed.



Typical Applications

- ▶ Industrial plant engineering
- ▶ Process automation
- ▶ Apparatus engineering, e. g. process control and documentation for quality assurance
- ▶ Centralized vacuum supply
- ▶ Chemical process engineering, e.g. vacuum mixers
- ▶ Specialty machinery
- ▶ Packing technology

Your Benefits

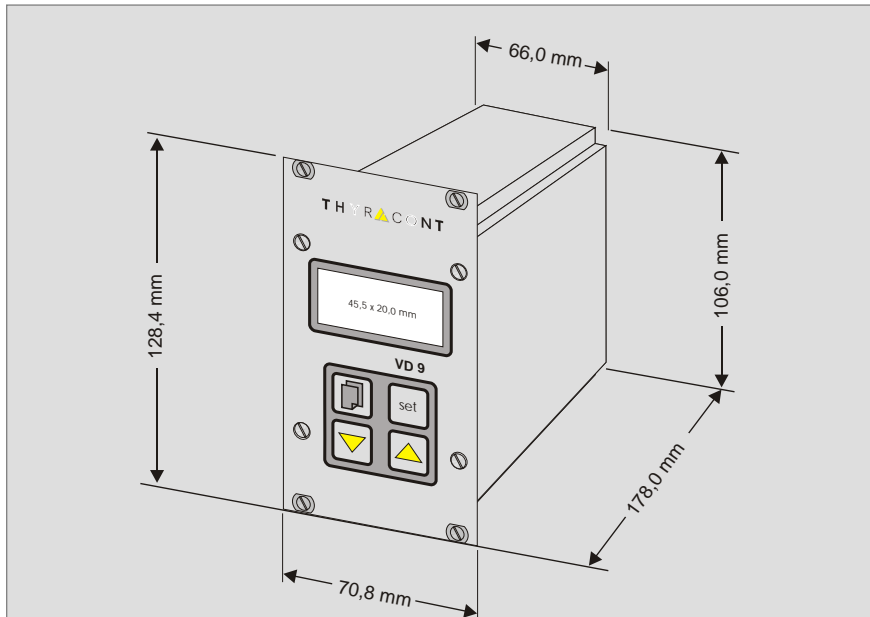
- ▶ On-off or three-position control, optionally with PI-characteristic, analog outputsignal for continuous PI-control available
- ▶ 2 relay switches
- ▶ Shielded 19" metal cassette with foil-protected front panel
- ▶ Worldwide use by switched mode power supply 95 - 265 VAC
- ▶ Pressure display in mbar, Torr, hPa
- ▶ The controller will be configured ex works according to your specified demands
- ▶ Versions made to specification on request (e.g. setpoint adjustment by external 4-20mA signal)
- ▶ 1-channel-controller, can be combined with 2 transducers for covering a wider range (e.g. 1400-0,001mbar) generating *one* continuous pressure display
- ▶ Simple operation
- ▶ High-contrast LCD display with background illumination
- ▶ Supports programming of setpoints via serial interface RS232
- ▶ VacuGraph-software: documentation and evaluation of vacuum processes, programming setpoints and time based pressure profiles, remote control



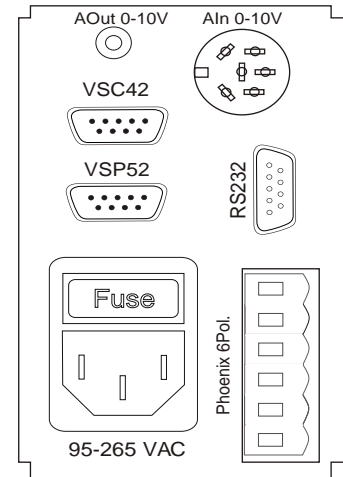
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Pin configuration (back side)



Technical Data

Measurement Range	1400-1.0e-9mbar depending on transducer type for max. 2 transducers
Measurement Display	floating point: 2 - 4 digits exponential, 2 dig. mantissa, 1dig. exponent
Accuracy	depending on the transducer type, additionally 0.06% f.s. +/- 1 digit
Measuring Rate	50 ms
Operating Temperature	5 ... 50°C
Storage Temperature	-20 ... +60°C
Power Supply	95 - 265 VAC 50/60 Hz
Power Consumption	max. 15 W incl. transducer
Transducer Power Supply	24 VDC, 8 W
Measuring Inputs	SubD 9pol., female - 4-20 mA 1400 - 1 mbar VSC42MA4 - 4-20 mA (1000...) 20-0,001 mbar VSP52MA4 - 0-10 V signal input (Amphenol)
Control Outputs	2 relays, analog output 0-10V
Switching Current	2 A, 250 VAC
Display	alphanumeric LCD display, background illumination, 4 digits 45 x 20 mm
Weight	775 g

Article Numbers

▶ VD9S2

19 inch-cassette 14 TE x 3 HE,
RS232, analog output, 95-265 VAC

Complete Sets

▶ VD92P (1400 - 1 mbar)

VD9S2 + VSC42MA4 + cable 2 m

▶ VD94P (1000...20 - 0,001 mbar)

VD9S2 + VSP52MA4 + cable 2 m

▶ VD95P (1400 - 0,001 mbar)

VD9S2 + VSC42MA4 + VSP52MA4 +
2 cable 2 m

▶ VD96P (1000...20 - 1e-4 mbar)

VD9S2 + VSP62MV + cable 2 m

▶ VD97P (1000...20 - 5e-9 mbar)

VD9S2 + VSM72MV + cable 2 m

▶ VD98P (1000...20 - 1e-9 mbar)

VD9S2 + VSH82MV + cable 2 m

Accessories

▶ W0800002

Interface cable, sheilded, 2 m

▶ VGR

VacuGraph Windows Software