

Supply unit VE 02



Principle of Operation:

This centralized supply unit for withdrawing gas from mesa L-probe measuring devices and supplying them with a controlled direct current voltage is designed to suit the widest variety of measuring systems possible with the L-probe. The unit has a high-precision power supply type NTV 44P to feed the L-probe heating system. In the process, a direct current of 12 V (+/-20 mV) is continuously controlled, regardless of the electric power required. Therefore the NTV 44P is equipped with four-wire technology. Furthermore, there is a measuring gas pump in the supply unit. The pump capacity can be adjusted by a needle valve integrated into the built-in flow meter. The ideal flow rate is between 30 and 55 liters/hr.

Apart from the gas flow meter, there is also a super-fine micro-filter in the door to protect the measuring gas pump. The micro-filter must be replaced when it gets clogged up (visual inspection). The on-off switch integrated into the door switches the supply unit on and off. The L probe needs approx. 20 minutes to heat up before it is ready for operation.

Technical data VE 02

Construction:

Wall housing, steel-plated

Protection Type:

Front panel: IP 55

Complete housing: with connected L-probe
IP20

Dimensions:

300 x 300 x 200 mm (B x H x T)

Connection:

with terminal clamps

Auxiliary voltage:

115 or 230 Vac \pm 10 % / 50-60 Hz

Order number

Device name

820-0170

Chamber type: VE 02

820-0140

Chamber type: VE 02-A

820-0168

Supply Unit VE 02 - Advance

999-0016

Supply unit VE 02 with MV31

999-0017

Supply unit VE 02 with A005