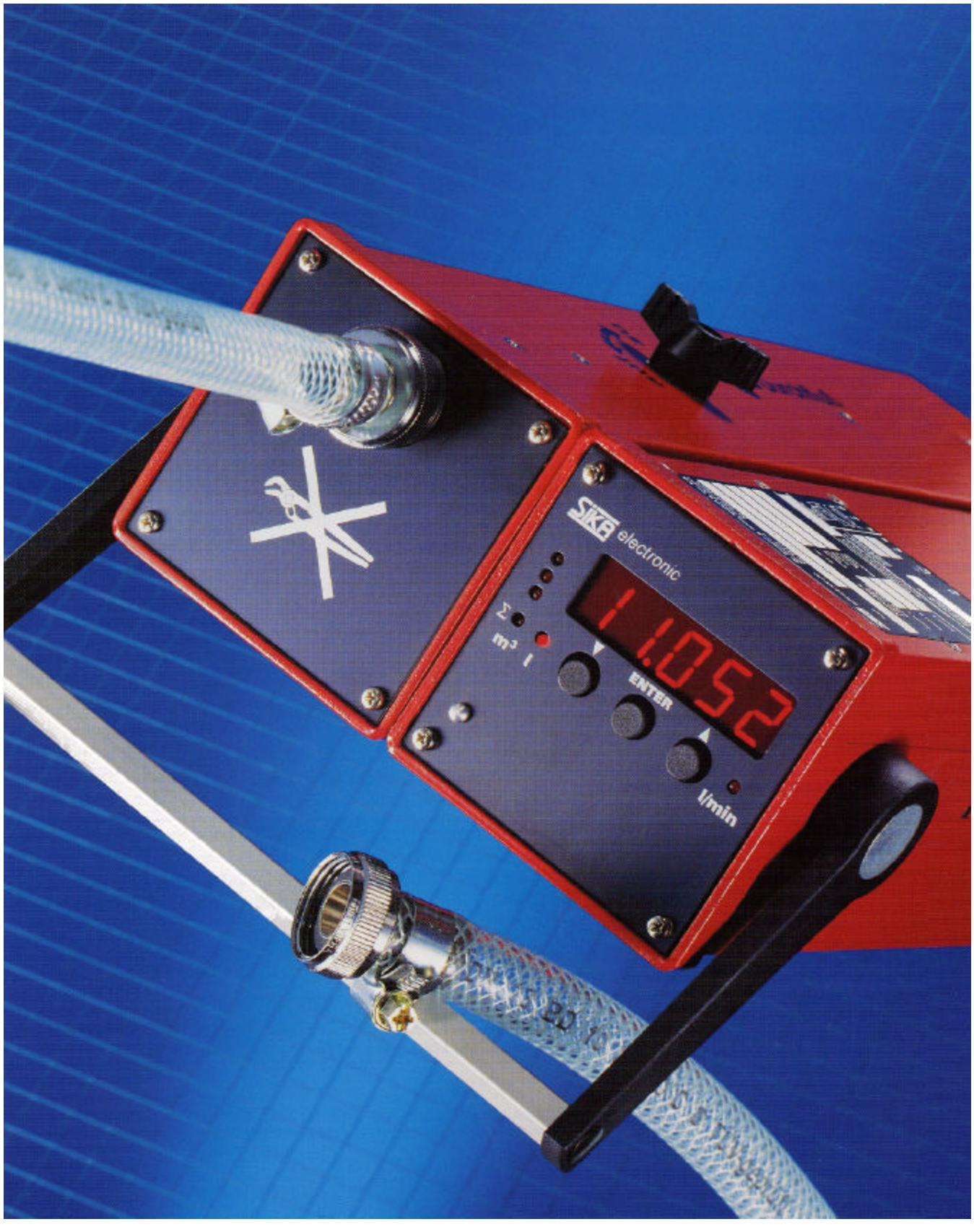
Flow calibrator

Series VP 18000

SIKA® founded 1901
Dr. Siebert & Kühn GmbH & Co. KG



SIKA Series VP 18000 flow calibrator

Calibration and Measurement - portable and Precise

In the interests of safety and economy, flow meters and flow switches used in the industrial sectors should be regularly inspected.

In some sectors, this is already specified.

With the VP 18000 flow calibrator, you can

- check your fitted flow meters. For this, you can select whether to display the current flow rate or the total flow.
- check and adjust your flow switch.
- carry out portable measurement of the flow rate.

Particularly advantageous is the fact that due to its low weight it is simple to transport. The flow calibrator operation is not complicated and fitting is easy.

The SIKA flow calibrator is used in the:

- Heating, Air-conditioning, Refrigeration industry
- Water supply companies
- Test stands for Engines
- Dosing and batching field

Functional specification

The flow calibrator is fitted into the intended measuring system via process connections (G 3/4 male thread) and connection hoses.

The calibrator VP 18000 operates with a high accuracy axial turbine flow sensor.

The measuring principle:
When the measuring fluid flows into the turbine system, a pulse signal is generated, which is directly proportional to the flow rate.

The pulses are transmitted into an electronic indicator including linearization. Therefore a high accuracy of measurement is obtained.

To achieve the necessary straightening of the measured medium, the required upstream and downstream straighteners are integrated into the flow calibrator. In addition, a filter at the inlet prevents particles contained in the fluid to influence the measured result.

The calibrator can be used both in a closed system loop as well as in a measuring system with an open outlet.

The digital indicator with the 5-digit digital display, provides both the current flow rate in l/min, as well as, when selected, the totalized volume in liter.

Other units (m , m /h, GPM) are programmable.

During operation, the flow data can be transmitted via the serial interface. The test data is processed by means of a standard software package (optional).

Technical data

	VP 18040	VP 18020
Flow range*	2 to 40 l/min	1 to 20 l/min
Flow measurement starts at*	0,3 l/min	0,2 l/min
Process connection	3/4" BSP male (others on request)	
Nominal bore	DN 15	
Accuracy*	± 1% of indicated value	
Repeatability*	± 0,3 %	
Max. temperature of medium	70°C	
Max. system pressure	10 bar	
Max. particle size	0,5 mm	
Material turbine body	PPO-NORYL	
Material pipe system	PA 6.6	
Material turbine system	ULTEM PEI	
Material O-ring seals	NBR	
Material bearing system	Hard metal shaft in sapphire bearings	
Material hose system	PVC	
Display rate of flow	5-digit 7 segment LED, 14 mm high	
Resolution of the display	0,01 l/min switchable to 0,0001 m^3/h	
Display total	0,0000.. .99999 l switchable to 0,0000.. . 99999 m^3	
Interface (option)	Serial interface RS 232 C (incl. interface protocol)	
Software (option)	SIKA calibration and test software	
Certificate (option)	SIKA works test certificate	
* All data refers to water as the test medium; other media on request!		

General data

	VP 18040	VP 18020
Power supply	230 V / 50/60 Hz options: 115 V / 50/60 Hz 24 / 12 V DC	
Power consumption	2 VA at 230 V / 50/60 Hz	
Dimensions (L x W x H)	400 x 200 x 1 00 mm	280 x 200 x 100mm
Weight	4,5 kg	4,0kg
All VP 18000 are delivered with carrying case, hose coupling set and SIKA work test certificate.		