# vasoquant® 1000 D-SGP


Single channel Photoplethysmograph

Automatic Calibration

Automatic Analysis

Simple Operation

Patented

VVP

ELCAT
innovative medical products

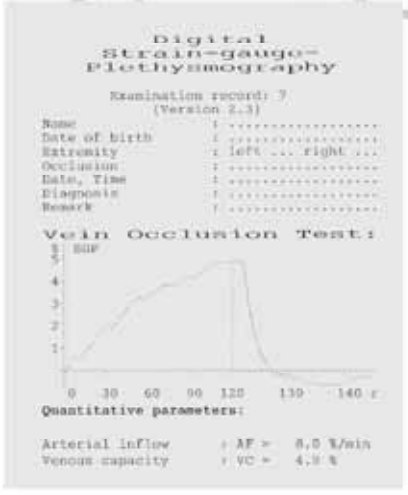
## VQ1000 D-SGP

Our D-SGP-device (digital-strain-gauge plethysmograph) is an up-to-date venous-occlusion plethysmograph based on classic strain-gauge technology.


The parameter measured is the increased volume of skin, fatty tissue and muscles due to augmented blood inflow.

Venous occlusion is followed by venous Outflow. Numerous scientific studies have shown that the changes in limb perimeter correlate well with venous flow conditions.

This technology meets all demand made onmodern screening methods: non-invasive, precisely reproducible, documentation of results, low-cost and timesaving operation.


Digital
Strain-gauge-
Plethysmography

Examination record: 7
(Version 2.3)

Name : .....
Date of birth : .....
Extremity : left ... right ...
Occlusion : .....
Date, Time : .....
Diagnosis : .....
Remark : .....

Vein Occlusion Test:

BGF

0 30 60 90 120 130 140 s

Quantitative parameters:

Arterial inflow : AF = 8,0 %/min
Venous capacity : VC = 4,0 %

An automatic calibration before each measurement ensures the adaptation to different strain-gauge-sensors as well as to a changed measurement situation.

The D-SGP-device supports the examination with optical and acoustical metronome signals and ensures a time-saving and error-free examination. The start of a measurement is only granted when there is constant calm blood circulation.

The D-SGP performs a self test before each examination.

Simple handling is ensured by the structured menu and an integrated learning program.

Measurement results, menues and charging status of the batteries are shown on the display. Previous examinations are saved automatically.

The integrated sleep function ensures a long-lasting operating time.

## You can use the D-SGP device for

Diagnostic investigation of haemodynamically relevant ouflow obstuctions

- Pelvic area
  D-SGP is a reliable device for diagnosing major pelvic vein thrombosis.
- Upper leg area
  D-SGP is a reliable device for diagnosing major vein thrombosis in the upper leg.
- Lower leg area
  In case of haemodynamically relevant thrombosis of the lower leg, i. e. occlusion of several lower leg veins as far as the vena poplitea, you will find characteristic curves.
- Haemocynamic course monitoring
  Thrombolysis, Thrombektomy, Rethrombosis.
- Determination of haemodynamic parameters
  Venous Capacity, Venous Outflow, Arterial Inflow

## Everything in one case...

- D-SGP device
- Thermal printer
- Battery charger
- Connection cable (to printer)
- Strain-Gauge Sensors (26 and 35 cm)
- 1 box adhesive collars,
  6 rolls thermal paper
  (approx. 500 measurements)
- Leg-Cuff
- Manual

## Included in the set

- Leg support
- Knee holder

## VQ1000 D-SGP technical data (technical specifications are subject to change without notice)

| Device | Sensor | Charger |
|---|---|---|
| **Dimensions** | **Dimensions** | **Line voltage** |
| 190 x 90 x 35 mm (L x W x H) | 25 x 10 mm (D x H) | 230 VAC / 50 Hz<br>110 VAC / 60 Hz optional |
| **Weight** | **Weight** | **Power dissipation** |
| approx. 740 g | approx. 7 g | 11 VA |
| **Powersupply** | **Sensors** | **Charge voltage** |
| Rechargeable battery; charging electronic prevents overcharging and deep discharge. | Strain-Gauge-Sensors<br>length:<br>20, 26, 35, 46 or 61 cm | 12 V |

## Cuff

| Width | Description | |
|---|---|---|
| 16 cm | length adjustable by velcro fastener, conical cuff with valve for fast deflation |  |

## Leg Support

| Description | |
|---|---|
| Foamed material with heel support and knee holder |  |

Are you interested in the vasoquant 1000 D-SGP?
Call us for further information!
We would be pleased to tell you more about the vasoquant 1000 D-SGP!

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