

# SECULIFE IF BASE

## INFUSION PUMP ANALYZER



- Easy to use
- Intuitive interface
- High accuracy
- Smooth dual syringe system to eliminate drain cycle inconsistencies
- Configurable pressure unit (PSI, mmHg, mBar, kPa)
- Industrial grade SS pressure sensor
- 0.1 ml/h to 1000 ml/h
- Mains or battery operation for full flexibility
- Whisper quiet operation
- Automatic start
- 4.3" color touchscreen
- Integrated stylus
- Built-in data collection (250 records with detailed asset information)
- PC software for test record management, report creation, remote control and much more
- Mobile app for remote control and easy test record sharing
- Bluetooth® and USB connection features
- SCPI support

### APPLICATION

SECULIFE IF BASE is a compact, single channel infusion pump analyzer.

It is a high accuracy, easy to use system that incorporates full touch screen control with an intuitive interface. The patented design uses a dual syringe stepper motor driven system that provides continuous monitoring of the fluid flow without the need to stop and perform intermittent drains. This provides a more realistic flow path for the infusion device under test and therefore more accurate readings.

### INCLUDED FEATURES

- Flow test
- Occlusion test
- Drain function
- Data storage

## FEATURES

### CONTINUOUS MONITORING

A dual syringe stepper motor driven system provides continuous monitoring of the fluid flow without the need to stop and perform intermittent drains.

### CONFIGURABLE TEST PARAMETERS

Configurable test parameters allow for specific test routines specified by various manufacturers.

### COMPREHENSIVE DATA STORAGE

Up to 250 different test records can be stored in the SECULIFE IF BASE manually or automatically for later viewing and analysis.

### PC SOFTWARE

The PC software “BC Flow”<sup>1</sup> (Windows<sup>2</sup>) is available as free download. With it, you can view and backup test records from the instrument, generate reports for an in-depth analysis and/or traceability. You can also remote control tests for easier handling.

### MOBILE APP

The mobile App “myBC Mobile”<sup>1</sup> is available as free download (Android<sup>2</sup>, iOS<sup>2</sup>). It allows for remote controlling tests for comfortable handling and results can easily be shared via your mobile device..

### CONTROL WITH SCPI

The Standard Commands for Programmable Instruments (SCPI) can be used to control the SECULIFE IF BASE from a PC. The connection is established via USB.

1. Program by BC Group International, Inc.
2. For system requirements see SECULIFE IF BASE operating instructions and download sites.



## DESCRIPTION OF FEATURES

### FLOW TEST

The flow test measures average flow rate, instantaneous flow rate, and dispensed volume.

### OCCUSION TEST


The occlusion test measures current pressure, elapsed time, peak pressure, and peak time.

### DRAIN FUNCTION

The drain function removes the fluid from the internal chamber or removes contaminants or debris in the flow and measurement path.



## TECHNICAL DATA

<b>Power supply</b>	AC power:	100 ... 240 V <sub>AC</sub> , 50/60 Hz
	AC power adapter:	12 V <sub>DC</sub> , 1.5 A 
	Battery:	Internal rechargeable lithium-ion battery pack
	Battery runtime:	12 hours idle, 3 ... 4 hours of continuous testing
	Battery charging duration:	approx. 4 hours (full charge)
<b>Ambient conditions</b>	Operating temperatures:	+15 ... +40 °C
	Storage temperatures:	0 ... +50 °C
	Relative atmospheric humidity:	10% ... 90%, no condensation allowed
	Elevation:	max. 3000 m
<b>Electromagnetic Compatibility (EMC)</b>	Interference emission:	EN 61326-1, class A
	Interference immunity:	DIN EN IEC 61326-1
<b>Mechanical Design</b>	Housing (W × H × D):	Approx. 121.9 × 109.2 × 157.5 mm
	Weight:	Approx. 1.4 kg
	Display:	4.3" color touchscreen 480 × 270 px
<b>Data Interfaces</b>	Wireless interface:	Bluetooth® Frequency range: 2.4 GHz ... 2.482 GHz Transmission intensity: max. 3 dBm
	COM port:	Micro-USB type B
<b>Internal memory</b>	250 measurements	

## RELEVANT STANDARDS

The instrument has been manufactured and tested in accordance with the following safety regulations:

DIN EN 61010-1 IEC 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements
DIN EN 61326-1 IEC 61326-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
DIN EN 63000 IEC 63000	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

## CHARACTERISTIC VALUES

Function	Measured Parameter	Measuring Range	
Flow measurement	Flow rate	0.01 ml/h ... 1000 ml/h	
	Flow resolution	0.01 ml/h	
	Accuracy (after 30 seconds)	1% of reading + 0.005 ml/h	0.1 ml/h ... 9.9 ml/h
		1% of reading	10 ml/h ... 700 ml/h
		2% of reading	700 ml/h ... 1000 ml/h
	Back pressure	0.200 psi	
	Minimum volume	0.05 ml	
Measurement range	10 Hz		
Volume measurement	Range	0 to 2000 ml	
	Resolution	0.001 ml	
	Accuracy	1% of reading after 0.100 ml	
Pressure measurement	Range	-5 psi ... 50 psi	
	Resolution	0.001 psi	
	Accuracy	0.1% of full scale	
	Pressure units	psi (default), mmHg, mbar, kPa	
	Measurement range	10 Hz	

## SCOPE OF DELIVERY

Standard scope of delivery:

- 1 SECULIFE IF BASE (M695Z)
- 1 Universal power adapter (including interchangeable US, UK, AUS, and Euro adapters; 12 V<sub>DC</sub>)
- 1 Tubing kit (2 × male Luer, 2 × female Luer, 1 × 3-way stopcock, 1 × 60 ml syringe, 1 × 60 cm clear tubing 1/8" internal diameter)
- 1 Micro USB cable (type B)
- 1 Calibration certificate
- 1 Manual

## ORDER INFORMATION

### INSTRUMENT

Type	Description	Article Number
SECULIFE IF BASE	Infusion pump analyzer with standard scope of delivery	M695Z

### ACCESSORIES

Type	Description	Article Number
Universal power adapter	Power adapter with interchangeable US, UK, AUS, and Euro adapters; 12 V <sub>DC</sub>	20-21115
Tubing kit	2 × male Luer, 2 × female Luer, 1 × 3-way stopcock, 1 × 60 ml syringe, 1 × 60 cm clear tubing 1/8" internal diameter	20-40619
Micro USB cable	Type B	20-41377

Further information is available:

- On the Internet at [www.gossenmetrawatt.com](http://www.gossenmetrawatt.com)
- In our Medical Measuring And Test Technology catalog






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