

# LFS-113 DUAL MODE LOW FLOW SAMPLING PUMP



## • Dual Mode Operation

Can be externally set to operate in Constant Flow mode (1-200cc/min.) or Constant Pressure (Multi Flow) mode (1-350cc/min.).

## • Flow Fault & Battery Indicators

Flow Fault indicator lights up if unit operates outside  $\pm 5\%$  of set flow rate while in Constant Flow mode. Battery Check indicator lights up when battery can provide a minimum of 8 hours of operation over operating range.

## • Timer Option (DC Model)

Timer option (DC model) provides a continuous digital clock display during sampling.

## • Battery Check LED

Dual filtration consists of internal pump filter and a replaceable inlet filter to prevent dirt and debris from affecting pump performance.

## PRODUCT SPECIFICATIONS

### PERFORMANCE

Flow Range ..... 1- 350cc/min  
 Low Flow Range ..... Constant Flow: 1-200cc/min, to 25" H<sub>2</sub>O  
 Constant Pressure (Multi Flow): 1-350cc/min, to 18 $\pm$ 3" H<sub>2</sub>O

Constant Flow Control ..... Better than  $\pm 5\%$  of set flow (after calibration)

Run Time ..... 8 hour minimum

Flow Fault ..... If flow changes exceed 5%, fault icon appears. If fault exceeds 30 seconds, pump shuts down. Pump attempts to restart every 3 minutes for up to 1 hour (Constant Flow mode only).

### ENVIRONMENTAL

#### Temperature Ranges

Operating ..... -4°F to 113°F (-20°C to 45°C)  
 Storage ..... -40°F to 113°F (-40°C to 45°C)  
 Charging ..... -40°F to 113°F (-40°C to 45°C)

#### Humidity Ranges

Operating ..... 0-85 %RH, non-condensing  
 Storage ..... 0-100 %RH, non-condensing

### GENERAL

Features ..... Dual filtration system, sorbent tube end breaker, belt clip  
 Controls ..... Power Switch, Flow Control Screw  
 Indicators ..... Flow Fault, Battery Check

Icons (LCD) ..... Elapsed Time (DC model only)

Dimensions ..... 2.50W x 4.63H x 1.38D inches  
 6.35W x 11.76H x 3.51D cm

Weight ..... 12.0 oz. (340 g)

### ELECTRICAL

Battery Pack ..... Sealed, Rechargeable Nickel-Cadmium

Interface Connectors ..... Charging Jack

Charging Time ..... 14-18 hours

### APPROVALS

CE ..... EMC EMI/RFI, EN 55 022 Class B; IEC 801-2, 3

#### Intrinsic Safety

UL ..... Class I, Div 1, Groups A, B, C, D; Class II, Groups E, F, G; Class III; T3C.

CENELEC ..... EEx ia IIC T4

## ORDERING INFORMATION

Description	Part Number
LFS-113 DS Sampling Pump, Basic .....	800088-101
LFS-113 DCS Sampling Pump, Clock .....	800098-101
LFS-113 DS Sampling Pump, Basic, Starter Kit, 120V .....	800088-101-1201
LFS-113 DCS Sampling Pump, Clock, Starter Kit, 120V .....	800098-101-1201
LFS-113 DS Sampling Pump, Basic, Starter Kit, 230V .....	800088-101-2301
LFS-113 DCS Sampling Pump, Clock, Starter Kit, 230V .....	800098-101-2301
LFS-113 DS Sampling Pump, Basic, Five-Pack Kit, 120V .....	800088-101-1205
LFS-113 DCS Sampling Pump, Clock, Five-Pack Kit, 120V .....	800098-101-1205
LFS-113 DS Sampling Pump, Basic, Five-Pack Kit, 230V .....	800088-101-2305
LFS-113 DCS Sampling Pump, Clock, Five-Pack Kit, 230V .....	800098-101-2305
Single-Station Charger (120 VAC) .....	400164
Single-Station Charger (230 VAC) [euro plug] [CE] .....	400198-1
Five-Station Charger (120 VAC) .....	400324
Five-Station Charger (230 VAC) [CE] .....	400373
Battery Pack (120 VAC) .....	800086
Battery Pack (230 VAC) [CENELEC] .....	800086-1

For a complete listing of pump models, kit configurations, and pump accessories, refer to the Gilian Catalog.

For more information on this pump and other Gilian products, please call **800-451-9444, ext 782** and ask for our Gilian product catalog.

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