

# MODEL SM100

### **Sampling Pump Module**



#### **Features**

- Simple, rugged design
- 0.5 1 LPM sample gas throughput
- Low flow indicator
- Trouble relay

#### **Benefits**

- Suited for combustible and toxic gases
- Supplies gas for up to three gas detectors
- Informs end user if flow is insufficient for gas detection
- Provides local trouble signal indication

#### Description

The SM100 is a pump system used to draw gas from a monitored area to a gas detector. By means of a sample line it can monitor areas that are far from the gas detector, inaccessible, or too cold, hot, or wet for direct monitoring. A sampling pump can supply gas for up to three gas detectors, a particularly useful feature when monitoring multiple unique gases in a single line.

The SM100 is available in two configurations, an aspirated model that is used with a compressed air source and a DC pump module. Both are fabricated from 316-stainless steel and designed to draw sample gas at a nominal flow rate of 1 LPM.

## **Applications**

- Aluminum smelting
- Emissions monitoring of soil samples
- · Landfill gas monitoring
- Printing
- Wastewater treatment





## MODEL SM100

**Aspirated Model Specifications** 

Aspirator Air: Instrument grade

Max. Aspirator

30 psig (206 kPa) Pressure:

Min. Air

Consumption: 0.6 CFM at 20 psig (137 kPa)

Max. Air

Consumption: 0.9 CFM at 30 psig (206 kPa)

Aspirated and DC Pump Model **Specifications** 

Sample Transport Time:

30 s at 0.5 LPM with 50 ft (15.25 m) of 0.180" (4.57 mm)

ID tubing

Nominal

2 CFH (1 LPM) Flow Rate:

Minimum

Flow Rate: 1 CFH (0.5 LPM)

C-UL-US (Enclosure only) Approval:

Classification: Class I, Div. 1, Groups A, B, C & D

Compatible

**Products:** S4000CH, S4100C, IR400,

S4000TH, S4100T, TS4000H

Accessories: Pressure gauge, end-of-line filters,

in-line filters, flashback arrestor

Warranty: One year

**Mechanical Specifications** 

Dimensions: 9" x 6" x 5"

(229 mm x 152 mm x 127 mm)

Weight: 4.5 lbs. (2 kg)

1/4" (6.35 mm) OD tube fitting Fittings:

Inlet and Exhaust Calibration Fitting:

1/4" (6.35 mm) OD barbed fitting

**Environmental Specifications** 

**Operating Temperature** 

Range: -4°F to +131°F (-20°C to +55°C)

**Operating Humidity** 

15-95% RH, non-condensing Range:

**Electrical Specifications** 

**Max Power** 

Consumption: 1.8 W at 9 - 30 VDC

(Aspirated Model) 8.5 W at 9 - 30 VDC (DC Pump Model)

**Electrical** 

Entry: 3/4" - 14 NPT

**Trouble Relay** 

SPDT, 0.6 A at 125 VAC, 0.6 A Rating:

at 110 VDC, 2 A at 30 VDC

Cable

Requirements: 18 AWG, shielded, twisted-pair (typical)

Max. Sample Tubing Length:

100 ft (30 m)

Max. Exhaust Tubing Length:

20 ft (6 m)

Status

Indicators: Low flow

Part Numbers: SM100ASP (P/N 10058101)

SM100DCP (P/N 10043264)

Specifications subject to change without notice.

Represented by:

**General Monitors** Worldwide

www.generalmonitors.com

Lake Forest, CA

26776 Simpatica Circle Lake Forest, California 92630 +1-949-581-4464 +1-949-581-1151 Fax:

email: info@generalmonitors.com

Houston, TX

9776 Whithorn Drive Houston, Texas 77095 +1-281-855-6000 Tel: Fax: +1-281-855-3290

email: gmhou@generalmonitors.com

Ireland

Ballybrit Business Park

Galway

Republic of Ireland +353-91-751175 Tel: Fax: +353-91-751317 email: info@gmil.ie

Singapore

No. 2 Kallang Pudding Road #09-16 Mactech Building Singapore 349307 +65-6748-3488 Tel:

Fax: +65-6748-1911

email: genmon@gmpacifica.com.sg

**United Arab Emirates** 

P.O. Box 61209 Jebel Ali Dubai

**United Arab Emirates** Tel· +971-4-8143814 +971-4-8857587 Fax:

Email: gmme@generalmonitors.ae

**United Kingdom** 

Heather Close Lyme Green Business Park Macclesfield, Cheshire United Kingdom, SK11 0LR +44-1625-619583 Tel: +44-1625-619098 Fax: Email: info@generalmonitors.co.uk

**Wuxi General Monitors** 

A joint venture

157 Hubin Road, C-11 1F Wuxi, Jiangsu Province 214073 People's Republic of China +86-510-8512 2222 +86-510-8512 8222 Fax: email: sales@wxglt.com