Application Data Sheet (ADS)

ST100 Series
Insertion Air/Gas Mass Flow Meter

Customer Information

Customer Name: _____

Address: _____

_____

Contact Name: _____

Phone: _____ Fax: _____

Email: _____

P.O. No.: _____ Customer Order No.: _____

Model Number Ordered   Calibration [1]

Single-Point

☐ ST100   - [0] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [E] - [ ] [ ] [ ] [ ] - [ ]

☐ ST100L - [ ] [ ] [ ] [0] [0] [0] - [ ] [ ] [E] - [ ] [ ] [ ] [ ] - [ ]

☐ ST110   - [0] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [E] - [ ] [V] [0] - [ ]

Dual-Element [2]

☐ ST102 A - [0] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ] - [ ] [ ] [ ] [ ] - [ ]

☐ ST112 A - [0] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ] - [ ] [V] [0] - [ ]

Tag Number [grid of boxes]

Process Details

[1] If more than one (1) calibration is required (excluding VeriCal™), provide *Process Details* for each calibration – attach additional sheet(s) as needed.

[2] For all dual-element discrete type models, provide *Process Details* for both main (ST1X2D) and second (ST1X2E) element; for analog outputs, also specify which outputs to assign to each element [3].

Application Description

Describe type of application *(example: flare, digester gas, aeration line, etc.)*:
_____

Process Media

Include gas name and percent composition by volume (moles) or weight (mass). Please attach a gas composition list or fill in composition below. Total composition must add up to 100%.

Gas Components: ☐ % Volume (moles)   ☐ % Weight (mass)

_____ _____ %
_____ _____ %
_____ _____ %
_____ _____ %
_____ _____ %
_____ _____ %
_____ _____ %
_____ _____ %

Process Conditions

	Normal	Minimum	Maximum	Engineering Units
Flow Rate:	_____	_____	_____	_____
Temperature:	_____	_____	_____	_____
Pressure:	_____	_____	_____	_____

Required Dimensions *(Include units of measure – inches, mm, etc.)*

1. Pipe Size: _____ or Duct Size: _____

   a) Outside Diameter: _____ Height: _____

   b) Inside Diameter: _____ Width: _____

2. Length of mounting adapter/coupling from outside pipe surface: _____

3. Length of straight-run available: _____

4. Describe nearest upstream and downstream disturbance:

   a) Upstream: _____

   b) Downstream: _____

Other notes about installation:

_____

Instrument Details

Flow Element Mounting/Flow Direction

Horizontal Pipe

☐ Horizontal pipe; side mount, flow left to right
☐ Horizontal pipe; side mount, flow right to left
☐ Horizontal pipe; top mount, flow left to right
☐ Horizontal pipe; top mount, flow right to left

Vertical Pipe

☐ Vertical pipe; flow up
☐ Vertical pipe; flow down

☐ **Other:** _____

Transmitter Setup

Input Power: ☐ 115 Vac   ☐ 230 Vac   ☐ 24 Vdc

Analog Signal Outputs	**Output 1** 4-20 mA	**Output 2** 4-20 mA	**Output 3** 4-20 mA
Parameter:	☐ Flow (default) ☐ Temperature	☐ Temp. (default) ☐ Flow	☐ Flow (default) ☐ Temperature
Eng. Units:	_____	_____	_____
Zero Value:	4 mA = _____	4 mA = _____	4 mA = _____
Full Scale:	20 mA = _____	20 mA = _____	20 mA = _____

[3] Dual-Element: ☐ ST1X2D ☐ ST1X2E   ☐ ST1X2D ☐ ST1X2E   ☐ ST1X2D ☐ ST1X2E

Signal Output 4   **Frequency/Pulse Output:** ☐ 0-1 kHz (default)   ☐ 0-10 kHz

Set as: ☐ 1 pulse per flow engineering unit

☐ Full scale frequency output proportional to full scale flow rate

☐ Other: _____

Bus Communications I/O

☐ HART (included with analog outputs)   ☐ FOUNDATION™ fieldbus H1 (no analog outputs)
☐ Modbus 485 (no analog outputs)   ☐ PROFIBUS PA (no analog outputs)
☐ Other: _____

Standard Temperature and Pressure

☐ 70 °F and 14.7 psia [21,1 °C and 1,013 bar(a)] is the factory calibration default for standard temperature and pressure unless otherwise indicated below.

☐ 0 °C and 1013,25 mBar(a)

Temperature   Pressure

Other: _____ _____

Other Notes, Drawings or Details

Vortab: ☐ Yes   ☐ No

Vortab Type: ☐ VMR   ☐ VIS   ☐ VEL   ☐ VFK   ☐ VIP