

LPGX1 PSignature Series Ultrasonic Flowmeter

PSignature Series

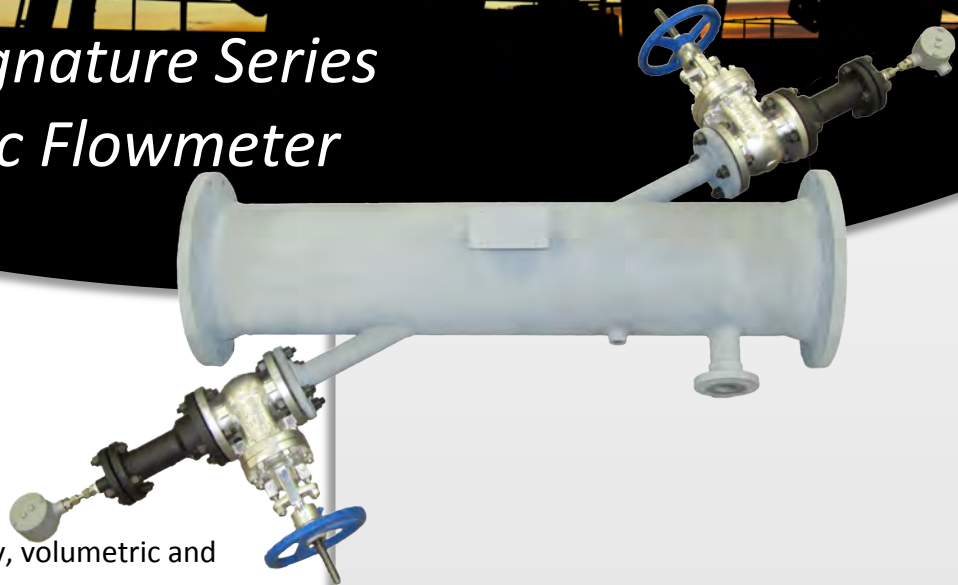
LPGX1 Low Pressure Gas Ultrasonic Flowmeter

Applications

- Flare Gas
- Vent Gas
- Bio Gas
- Fuel Gas
- Process Gases

Features

- Measures velocity, volumetric and mass flow
- Suitable for varying gas composition
- Molecular weight calculations
- High turndown ratio
- Low cost and custom design options



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Why purchase flowmeters from Procon?

- Flowmeters completely assembled, tested, inspected and shipped ready for installation
- Optional “on-line” transducer insertion and removal
- All quotes include calculations with accuracy and specific drawings
- Meets all applicable North American codes and standards (Details specified on quotes and drawings)
- In-house low pressure flow calibration loop, used for verification, improved accuracy, reduced straight run and new design testing
- Combines tested, proven and new technologies with engineering and know-how to provide the best solutions for our valued customers.
- More than 25 Years of flare meter application and service experience. Factory trained service technicians and stocked parts to minimize downtime.

Procon has designed, assembled and tested ultrasonic flowmeters for over 20 years with thousands of installations. All our flowmeters are engineered to meet specific application and customer requirements at very competitive prices

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CANADA

Toll Free 1-866-255-2921

USA

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Specifications and features subject to change
Version no.: 2.0 Jan.2020

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General Specifications:

For additional technical details see ordering information.

Flowcell

Flow/Accuracy:	Typical $\pm 2.0\%$ of velocity reading 3 m/s to 65 m/s Typical $\pm 3.0\%$ of velocity reading 0.1 m/s to 3 m/s Typical $\pm 1.0\%$ with calibration Flow calculations with Accuracy Statements provided for each application Typical accuracies based on 6" or larger lines with adequate straight run, typically 20D upstream / 10D downstream for gas applications
Repeatability:	$\pm 0.2\%$ of Reading
Size:	1 – 96 inches
Rating:	ASME CLASS 150 – 600
CSA:	Class 1, Div.1 or Div.2, Groups A, B, C & D
Design Temperature:	-50°F to 482°F (-45°C to 250°C)
Ambient Temperature:	-40°F to 140°F (-40°C to 60°C)

Electronics

Enclosure:	CSA approved for Class 1, Div. 1 or Div.2, Group A, B, C & D areas – Enclosure epoxy coated aluminum, IP66 / NEMA 4X
Display:	128 x 128 Dot Matrix LCD Display with 4 keys
Ambient Temperature:	-40°F to 140°F (-40°C to 60°C), LCD Display will blank out at -10°C
Storage Temperature:	-67°F to 167°F (-55°C to 75°C)
Weight & Dimensions:	9.8 in x 6.3 in (248 mm x 160 mm) 10 lbs (4.5 kg)
Power Supply:	670mW maximum, 12-28 VDC
Inputs/Outputs:	1x USB (not Intrinsically Safe) and 1x Frequency Output, Additional I/O available

Documentation (Standard with all Flowmeters):

Drawings, Flow Calculations, Manuals, Certificate of Compliance, Welding Procedures and Qualifications, Hydrotest, NDE Reports, Material Test Reports, CSA, Programming Sheet, ITP, PWF, Optional flow calibration

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Ordering Information

LPGX1 - A - B - C - D - E - F - G - H - I - J - K - L - M - N - O

Example: LPGX1-06-150-RF-LC-1-I-2-100-N-1-2-1-1-CRN-NAC-F001000

Option Code	Description
A	Nominal Size
01..96	Nominal Size in Inches
B	Rating
---	No Rating (Typical for Weld Prep Flowmeters)
150	
300	
600	
C	End Connections
RF	Raised Face Flange
FF	Flat Face Flange
WP	Weld Prep
D	Material of Construction
CS	Carbon Steel
LC	Low Temp Carbon Steel
34	304 Stainless Steel
36	316 Stainless Steel
E	# Of Paths
1	Single Path
2	Dual Path
F	Transducer Ports
T	Threaded
W	Socket Weld
F	Flanged
C	Threaded Insertion Mechanism
I	Flanged Insertion Mechanism
G	Extra Ports on Flowcell body
0..9	Number of additional ports (Port Details to be shown on Drawing)
H	Max Flow
XXX	XX m/s Custom Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range)
010	Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range)
050	Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range)
065	Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range)
100	Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range) - Expected availability June 2020
120	Max Flow Velocity in m/s (Gas Composition required to confirm Max. Range) - Expected availability June 2020
I	Operating Temperature Range
N	-50°F to 302°F (-45°C to +150°C)
H	-50°F to +482°F (-45°C to +250°C) (Expected availability December 2020)

J	Mounting /Configuration
1	Direct Mount / CLASS 1, Div.1
2	Direct Mount / CLASS 1, Div.2
K	Power
2	12-28 VDC (External Options available for other voltages)
L	Additional Input / Output SLOT1
0	None
1	1 RS485 Serial Port, Isolated Modbus Protocol and 2 Configurable Digital Outputs
M	Additional Input / Output SLOT2
0	None
1	1 RTD Sensor Input, Configurable for 4 Wire PT100 and 1 Bridge Type Pressure Sensor Input
N	Optional Extras and Specials (Can be more than one)
CRN	Canadian Registration Number (Specify Province or Provinces)
NAC	NACE Certificate of Compliance
PMI	Positive Material Identification
HAR	Hardness Testing of Production Welds
PWH	Post Weld Heat Treatment
YEL	Yellow Flow Arrows Painted on each side of the Flowcell
JET	Jet Lube Petro Tape only
ICO	Internal Coating (Specify Details)
SSS	Special (Specify)
O	Drawing #
F00XXXX	Flowmeter Drawing #



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