



## Systems and solutions Flow-X

Flow-X



**Model Name** > [Flow-X](#)



The Flow-X flow computer provides gas volume conversion, event logging, audit trails and reports using latest technology. Each module combines advanced measurement technology, fast digital signal processing, abundant processing power, versatile data communication and high capacity storage into a fully equipped flow computer. Stream modules are combined in different enclosures, offering a multi-stream version Flow-X/P for 1 - 4 streams with local touch screen or a single stream version Flow-X/S for smaller installations with one stream. The Flow-X flow computer meets the requirements for even the most demanding applications and is the ideal partner for custody gas metering solutions in installations with FLOWSIC600 ultrasonic gas meters.

**At a glance**

- MID approved configuration for gas metering streams with FLOWSIC600
- Powerful modules for demanding applications
- Each module features CPU, memory and equal in/outputs
- Compelling 7" graphic display with touch operation
- Intuitive user interface for graphics display and web browser
- True remote access via Ethernet
- Station computer for multiple streams

**Your benefits**

- Reduced planning and installation costs through standard configurations
- Very accurate volume conversion with multiple calculation cycles per second
- High reliability through independent modules with their own volume conversion and storage of measured values, counter readings and events
- Easy extension of installations with modules featuring equal in/outputs and 100% software configuration
- Very simple operation through intuitive user interface featuring identical menus and displays on the device and in the control room
- Reduced service and maintenance costs with tamper-proof remote maintenance
- Cost-efficient and flexible system integration of multiple streams

**Fields of application**

- Custody gas metering with FLOWSIC600 gas meters
- Demanding natural gas and process gas applications
- Totals at base conditions for gas volume, mass and energy
- For natural gas, special gases and steam
- Gas metering with advanced diagnostics with FLOWSIC600 2plex
- Redundant gas metering with FLOWSIC600 Quatro

## Technical data

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Ambient temperature:	+5 ... +55 °C
Ambient humidity:	≤90 % relative humidity; non-condensing
Conformities:	API 21.1 MID
Analog outputs:	4 outputs: 0/4 ... 20 mA , 1 ... 5 V Resolution 14 bits; 0.075 % full scale.
Analog inputs:	6 inputs, configurable as: 0/4 ... 20 mA , 0 ... 5 V HART loop for connection to HART transmitters on four analog inputs. Inputs with high accuracy: error < 0.008% full scale, resolution 24 bits.
Digital inputs and outputs:	16 Open collector ports: software configured as status inputs or outputs
Additional inputs:	2 PRT (RTD) inputs for PT100 temperature sensors: -220 ... +220 °C Resolution 0.02 °C Maximum error: 0 ... +50 °C: +0.05 °C -220 ... +220 °C: +0.5 °C
Interfaces:	2 x RJ45 (Ethernet TCP/IP 100 MBit/s) 2 x RS-232
Correction method:	PTZ
Compressibility:	AGA 10 AGA 8 (detailed) AGA 8 Gross methods AGA NX-19 SGERG
Supported gas chromatographs:	Supportd all major gas chromatographs (e.g. ABB, Daniel, Elster, Siemens)
Components CPU board:	400 MHz i.MX processor with math coprocessor and FPGA 50 MB RAM 32 MB Flash memory Real time clock with internal lithium cell; accuracy better than 1s/day

**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)