

FLOWSIC600 DRU-S ultrasonic flowmeter

Simple and robust upstream gas flow measurement



More information and current pricing:

www.endress.com/IFL6DR

Benefits:

- Highly reliable – continuous gas measurement even in wet and dirty process conditions
- Low initial investment - accurate measurement without expensive flow calibration
- Elimination of scheduled maintenance with real-time remote diagnostics
- Advanced process monitoring capability with unique liquid detection
- Long life - wet gas resistant titanium ultrasonic sensors

Specs at a glance

- **Measured variables** Volumetric flow a. c., volume a. c., gas velocity, sound velocity
- **Measuring Medium** Natural gas, Associated gas , Raw Natural gas
- **Nominal pipe size** 2" / 3" / 4"

Field of application: FLOW SIC600 DRU-S is a compact and innovative ultrasonic gas flowmeter for gas production. The gas meter is specifically designed for wellhead and gaslift applications. With a measuring range of more than 1:100, the FLOW SIC600 DRU-S covers flow ranges that previously required several orifice plates. Its special "wet gas robust" design ensures continuous measurement even under continuous high liquid loads. FLOW SIC600 DRU-S allows remote monitoring of measurement and diagnostic data.

Features and specifications

Gas

Measuring principle

Ultrasonic transit time difference measurement

Measured variables

Volumetric flow a. c., volume a. c., gas velocity, sound velocity

Measuring Medium

Natural gas, Associated gas , Raw Natural gas

Repeatability

± 0.2 % of the measured value

(between Q_t and Q_{max} depending on the installation requirements)

Accuracy

Error limits $Q_t \dots Q_{max} \pm 2$ %

Medium temperature range

-40 °C ... $+100$ °C / -40 °F ... 212 °F

Operating pressure range

0 bar(g) ... 16 bar(g) / 0 psi(g) ... 230 psi(g) for ANSI CL150

0 bar(g) ... 100 bar(g) / 0 psi(g) ... 1450 psi(g) for ANSI CL600

Nominal pipe size

2" / 3" / 4"

Hazardous area approvals

IECEX:

Gb/Ga Ex db eb ib [ia Ga] IIA T4

Ultrasonic transducer, intrinsically safe

ATEX:

II 1/2 (1) G Ex ia/ db eb ia [ia Ga] IIA T4 ...T1 Ga/Gb

Ultrasonic transducer, intrinsically safe

NEC/CEC (US/CA):

Class I, Division 1, Group D T4

Class I, Division 2, Group D T4

Ultrasonic transducers intrinsically safe

Gas

Digital Outputs

2 DO and 1 FO:

30 V, 10 mA

Passive, galvanically isolated, open collector, $f_{\max} = 6 \text{ kHz}$
(scalable)

Digital communication

RTU RS-485 (2x, for configuration, data output and diagnostics)

ASCII RS-485 (2x, for configuration, data output and diagnostics)

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