

Flexim™ FLUXUS F/G631

Upgrade to Enhanced Performance and Unmatched Flexibility

The **FLUXUS F/G631** is the ultimate advancement in flow measurement technology, specifically designed to meet the needs of various industrial applications. Building on the success of the FLUXUS F/G601, the F/G631 offers enhanced capabilities and new features that provide significant benefits for facility operators in the oil & gas, chemical, power generation, water, life sciences and many other industries.

Upgrading to the FLUXUS F/G631 provides significant advantages for your operations:

- ✓ **Unrivalled Performance:**
Advanced signal processing and diagnostics ensure exceptional reliability and accuracy, even in the most demanding environments.
- ✓ **Outstanding Agility:**
Synchronized Channel Averaging measurement allows for instantaneous flow profile compensation despite highly dynamic flows and turbulence induced by difficult inlet conditions.
- ✓ **Space Efficiency:**
Disturbance correction technology allows accurate measurements in tight spaces with reduced inlet lengths. Preferred inlet conditions of 10 pipe diameters can be reduced to 2 diameters with minimal uncertainty impacts.
- ✓ **Enhanced Flexibility:**
New, robust, and flexible mounting system enables improved measurement flexibility and performance.
- ✓ **Predictive Maintenance:**
The graphical display provides direct visualization of diagnostic value trends and analysis of signal SNAPS.
- ✓ **Ease of use:**
Larger display, USB-C port, and optimized user menu for quick start-up.

Key Enhancements

Communications:

- Flexible communication and data management options via USB-C, direct USB stick connection, Modbus RTU, or analog integration into a PLC or DCS.
- Proven robustness paired with a modern HMI, a large graphical display, and high flexibility for use in liquid, gas, and steam applications.

Performance:

- Measurement performance and signal processing are strengthened in 631 (incl. disturbance correction based on CFD and LDV measurements)

Feature	F/G601	F/G631	Notes
Signal processing	Basic	Advanced	Improved reliability and accuracy in demanding conditions
SCA	✗	✓	Instantaneous flow profile compensation
Flow Disturbance Correction	✗	✓	Reduced uncertainty in non-ideal inflow conditions
Correlation flow measurement function	✗	✓	For measuring high-pressure steam
Flexible robust mounting systems	✗	✓	Enables precise positioning and vibration-proof stability
Energy saver / sleeping mode	✗	✓	With up to 80 days operational time
Improved interface & start-up	✗	✓	Larger display, USB-C, more intuitive menu for faster start-up
Improved ingress protection	✗	✓	IP65/67

TECHNICAL FACTS

Category	FLUXUS 601	FLUXUS 631
Flow channels	2	2
Outputs	2 switchable current Binary and frequency at an additional cost	2 switchable current and 2 multi-purpose outputs (MPO) as standard
Fieldbus protocols	Modbus RTU	Modbus RTU
Service interface	RS232	USB-C
Inputs	Temperature, current	Temperature, current
Uncertainty liquid measurement	$\pm 1\%$ MV ± 0.02 ft/s	$\pm 1\%$ MV ± 0.02 ft/s
Uncertainty gas measurement	± 1 to 2% MV ± 0.02 ft/s	± 1 to 2% MV ± 0.02 ft/s
Response time	down to 0.07 s	down to 0.02 s
Power supply	100...230 V/50...60 Hz (power supply unit: IP40, 32...104 °F) 10.5...15 V DC (socket at transmitter) - integrated battery	100...240 V/50...60 Hz (power supply unit: IP40, 32...104 °F) 10.5...13.5 V DC (socket at transmitter) - integrated battery
Diagnostics	-	Snap on installation, in device snap viewer
Advanced functions	-	Synchronized Channel Averaging Advanced Flow Disturbance Correction
Ambient temperature	+14...140 °F	-4...+140 °F
Ingress protection meter	IP65	IP65 & IP67
Ingress protection during measurement	IP50	IP65 & IP67
Display	2 x 16 characters dot matrix	240 x 280 pixel LCD



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