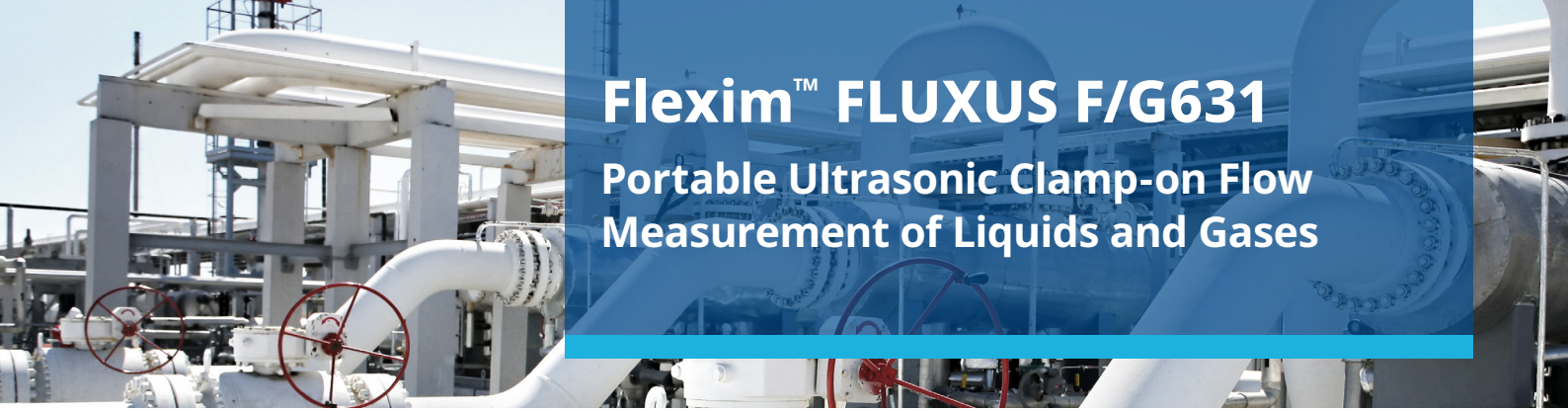




Flexim™ FLUXUS F/G631

Portable Ultrasonic Clamp-on Flow Measurement of Liquids and Gases

For Oil & Gas operators who need reliable flow insight exactly when and where it is required, the Emerson's Flexim FLUXUS F/G631 portable ultrasonic clamp on flow meter delivers precise, on demand measurement of liquids and gases - without shutdowns or permanent installation.

Gaining reliable insight into flows, energy, and asset performance is an ongoing challenge - especially when conditions change, processes are optimized, or temporary verification is required.

The 631 is an ultimate advancement in flow measurement technology. Designed for temporary and investigative field use, it supports tasks such as verifying existing installations, inspection, maintenance, and pre-evaluation ahead of permanent meter installation. It also ensures immediate measurement capability when permanent systems are unavailable.

Non-intrusive measurement across virtually any pipe material and diameter, combined with advanced correction for disturbed flow profiles and high-performance gas measurement, enables reliable results even under challenging conditions - providing answers wherever and whenever they are needed.

High-performance Flow Measurement on the Go

✓ One for all

The 631 portable clamp-on ultrasonic flow meter measures the flow of virtually any gas and liquid using the proven transit-time correlation technique.

✓ Ease of use

The series delivers a consistent and intuitive user experience, with quick setup – a liquid measurement can be running in under five minutes.

✓ 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.

✓ Optimized for Harsh Conditions

Long-term, outdoor, remote measurement is now possible thanks to the low-power mode and the IP65/67 ingress protection standard.

Key Features

- Non-intrusive installation without process interruption or pipe modification
- No pressure loss, no risk of leaks
- New, robust, and flexible mounting system improves measurement adaptability
- Modbus RTU process interface (optional)
- Wide turndown ratio for varying flow conditions
- Graphical display visualizes flow trends and diagnostic signal SNAPS.

Main Applications

- Verifying existing installations
- Surveys of pump and compressor curves
- Monitoring heat exchangers
- Immediate coverage of failed permanent meters
- Check and service activities
- Leak and bypass flow detection
- Fire water pump checks
- Deluge testing
- Water injection, gas injection and gas lift inspections
- Verification measurements of installed inline flow meters
- Fuel gas network checks
- Pre-evaluation before installation of permanent flow meters



TECHNICAL FACTS

	Flexim FLUXUS F631	Flexim FLUXUS G631
Transmitter		
Process Media	all acoustically conductive liquids with < 10 % gaseous or solid content in volume	- all acoustically conductive gases, e.g. nitrogen, air, oxygen, hydrogen, argon, helium, ethylene, propane - all acoustically conductive liquids with < 10 % gaseous or solid content in volume - optional: saturated steam, superheated steam
Flow channels	2	
Measurement uncertainty (volumetric flow rate)	± 1% MV ± 0.005 m/s (0.02 ft/s)	±1 to 2 % MV ±0.005 m/s (0.02 ft/s)
Response time	down to 0.02 s	
Repeatability	±0.15% of reading, ±0.005 m/s (±0.02 ft/s)	
Power supply	100...240 V/50...60 Hz (power supply unit: IP40, 0...40 °C (32...104 °F)) 10.5...13.5 V DC (socket at transmitter) integrated battery	
Outputs	2 switchable current and 2 multi-purpose outputs (MPO)	
Inputs	Temperature, current	
Service interface	USB-C	
Ingress protection (meter / during measurement)	IP65 & IP67	
Battery operating time	25 h (up to 80 days in low-power mode)	
Available transducers		
Pipe size range (inner diameter)	6mm ... 6.5m (0.24...256 in)	7mm ...1.6m (0.28...63 in)
Temperature range (pipe wall)	-40...200 °C (-40...392 °F) (extension possible with WaveInjector)	
Flow velocity range	0.01...25 m/s (0.03...82 ft/s)	0.01...35 m/s (0.03...115 ft/s), depending on pipe diameter, transducer and application



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