

High Performance ACCU-FLO Meter

With an innovative edge the Landtec ACCU-FLO Meter highlights a distinctive feature: A zero calibration self check. The Self Check allows the user to verify that their Landtec ACCU-FLO Meter has not shifted, drifted or deviated from its original NIST-traceable Factory Calibration value. This ability makes the ACCU-FLO Meter unique, extremely useful on Gas-to Energy projects, environmental compliance and essential for the carbon credit market.

Features

- Direct Mass Flow
- High accuracy and repeatability
- Turndown of up to 100:1 and resolution 1000:1
- Low end sensitivity (measures as low as 5 SFPM)
- Negligible pressure drop - will not impede the flow or waste energy
- No moving parts
- Low sensitivity to dirt
- Low cost of ownership

Benefits

- New microprocessor technology for high performance mass flow measurement
- Low power dissipation (2.5 watts)
- Displays calibration milliwatts for ongoing diagnostics
- Calibration self check - has built-in diagnostics for a factory approved field calibration check
- Modbus compliant RS485 RTU communications
- High contrast photo-emissive OLED display with numerical flow rate

Applications

- Gas to Energy Projects
- Carbon Credit Projects
- Environmental Compliance
- Anaerobic Digesters
- LFG Recovery Projects
- Flare Stations



Technical Specifications

Accu-Flo Meter

Technical Description	Thermal dispersion based on the principle of conductive and convective heat transfer.
Flow Element Type	Insertion
Power Supply	24v DC
Power Dissipation	Less than 2.5W (less than 100mA at 24v DC)
Outputs	4-20mA output for Mass Flow Pulsed outputs for Totalised Flow (24vDC solid state [sourcing] transistor drive) Modbus® compliant RS485 RTU communications (IEEE 32 Bit Floating Point)

PROBE

Material	316 SS sheath
Temperature Sensors	2 reference grade resistance temperature detectors (RTD) protected in a 316 SS sheath.
Probe Outside Diameter	12.7mm (1/2")
Probe Length	As standard 457mm (18"). Other lengths available on request


ELECTRONIC ENCLOSURE

Enclosure	Dual compartment
Material	Painted Aluminium
Display	High contrast photo emissive organic LED (OLED) with screen saver
Units of Measurement	Any UOM available (per Second, Minute or Hour)
Totaliser	Up to 9 digits (then rolls over)
Temperature Display	°C or °F
Graphical Display	Yes, displays percentage of Full Scale

GENERAL

Accuracy	±0.5% of Full Scale plus 1% of reading
Turndown Ratio	Up to 100:1
Resolution	1000:1
Repeatability	0.2%
Calibration	Built in diagnostics, continuously displays 'raw' mill watt (mw) output for ongoing diagnostics
Process Gas Temperature Range	-40 - 93°C (Remote version up to 232°C)
Process Pressure	35.5 Bar (g) / 500 PSI (G)

CERTIFICATION RATING

ATEX	 Ex nA IIC T4 X
UL	UL1604, Third Edition ⁷ <small>⁷ Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations</small>
CSA	CSA C22.2 No. 213-M1987 (R1999), First Edition ⁶ <small>⁶ Non-incendive Electrical Equipment for use in Class I, Division 2 Hazardous Locations</small>
CE	24v DC version