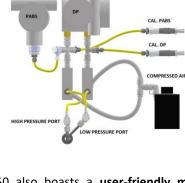


Continuous Emission Monitoring Systems ► THT-FLO-50

THT-FLO-50 is a specific instrument for measuring the flow rate and velocity of stack gases, and it represents the ideal complement to any CEMS/SME system in compliance with current regulations for emissions monitoring.

his Flow Meter, designed and manufactured by TECNOVA HT thanks to its decades of experience in the field of Certified Stack Emission Measurements, is a technically advanced yet userfriendly solution. It fully complies with current regulations, meeting the requirements of UNI EN 15259 Air quality – Measurement of stationary source emissions – Requirements for measurement sections and sites and for the measurement objective, plan and report and UNI EN 16911-2 Stationary source emissions – Manual and automated determination of velocity and volume flow rate in ducts – Part 2: Automated measuring systems.



THT-FLO-50 is also an ideal instrument for dirty and

particulate-rich flue gases thanks to its compressed air

self-cleaning system that can be fully timed according to

the specific fouling curve for each stack.

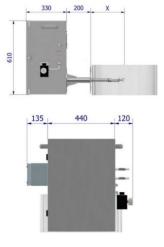
FLO-50

THT-FLO-50 also boasts a **user-friendly man-machine interface** thanks to the polycarbonate keypad and backlit display for managing critical parameters, such as automatic partitioning via solenoid valves, including pressure gauge and flow controller, **RS485 data output** and external access for easy sensor calibration.

THT-FLO-50 is a complete system being composed of several sensors such as a standardized **Darcy Probe** and **Differential Pressure** Transmitter for measuring volumetric flow, **Absolute Pressure and Temperature** for dynamic compensation of the measured value.

THT-FLO-50 THT-FLO-50 is an extremely **compact and lightweight** flow meter that can be installed anywhere without complex and costly mechanical interventions

THT-FLO-50 is designed for a **fixed installation directly on any stack** as it is already equipped with a connection flange and you can choose different lengths of Darcy insertion probe.





Continuous Emission Monitoring Systems ► THT-FLO-50

Technical Specifications

GENERAL	
Standard Length (x) Flange - Darcy Probe	300 mm - 600 mm - 900 mm
Weight	Other lengths available upon request ≈ 25 kg
Weight	Ambient temperature: -20 ÷ +50°C
Environmental Conditions	Ambient temperature: 920 + 930 C
Process Conditions	Flue gas temperature: max +300°C Flue gas velocity: max 30 m/s
Power Supply	230 V AC, 50÷60 Hz
Mechanical Connection	Flange DN65, 150 mm
INTERFACE & OUTPUT SIGNALS	
Local Interface	Backlit LCD display with polycarbonate keypad
Digital Protocols	RS485 Modbus
Analog Outputs	4 x 4-20 mA configurable for: velocity, flow rate, differential pressure, absolute pressure, temperature
Digital Outputs	0-24 VDC NC relay for fault 0-24 VDC NO relay for maintenance
INTEGRATED SENSORS	
Differential Pressure	Range: 0-1 kPa (0-10 mbar) Accuracy: ±0.1%
Flue Gas Absolute Pressure	Range: 80-110 kPa (800-1,100 mbar) Accuracy: ±0.2%
Flue Gas Temperature	Range: 0-300 °C Accuracy: ±1%
INTEGRATED FEATURES	
Internal heater and built-in case temperature sensor	
Electrically heated Pitot tube with temperature monitoring and built-in safety alarm	
Integrated automatic compressed air backflow cleaning system	
OPTIONS ON REQUEST	
LAT Certification for RTD and/or pressure sensors	
Input signal for Absolute Pressure from existing 4-20 mA loop-powered external transmitter	

All technical specifications are subject to change by TECNOVA HT without prior notice