



SMC-1201 Mass Flowmeter

The SMC-1201 Mass Flowmeter is specifically designed to meet the rigorous demands of the CNG industry. The intrinsic characteristics of the SMC-1201-D make it especially suitable for flow measurement of flammable fluids, liquids or gaseous.

It's totally made in AISI 316/304 stainless steel, hence DEVELCO Mass Flowmeters fit requirements of applications of chemical and food industry.



General Specifications.

- **Coriolis type Flowmeter.**
- **SMC-1201-D Electromechanical Sensor is intrinsically safe according Standard Clasification IRAM-IAP-IEC 79-0/11 Ex "ib" IIB T4.**
- **Approved for Explosive Gas Atmospheres.**
- **Its high dynamic flow measurement range (typical 100:1), and high zero stability, enable it use for Custody/Transfer applications.**
- **SMC-1920T Flow Processor is Associated Equipment according Standard Clasification IRAM-IAP-IEC 79-0/11 Ex ["ib"] IIB T4.**





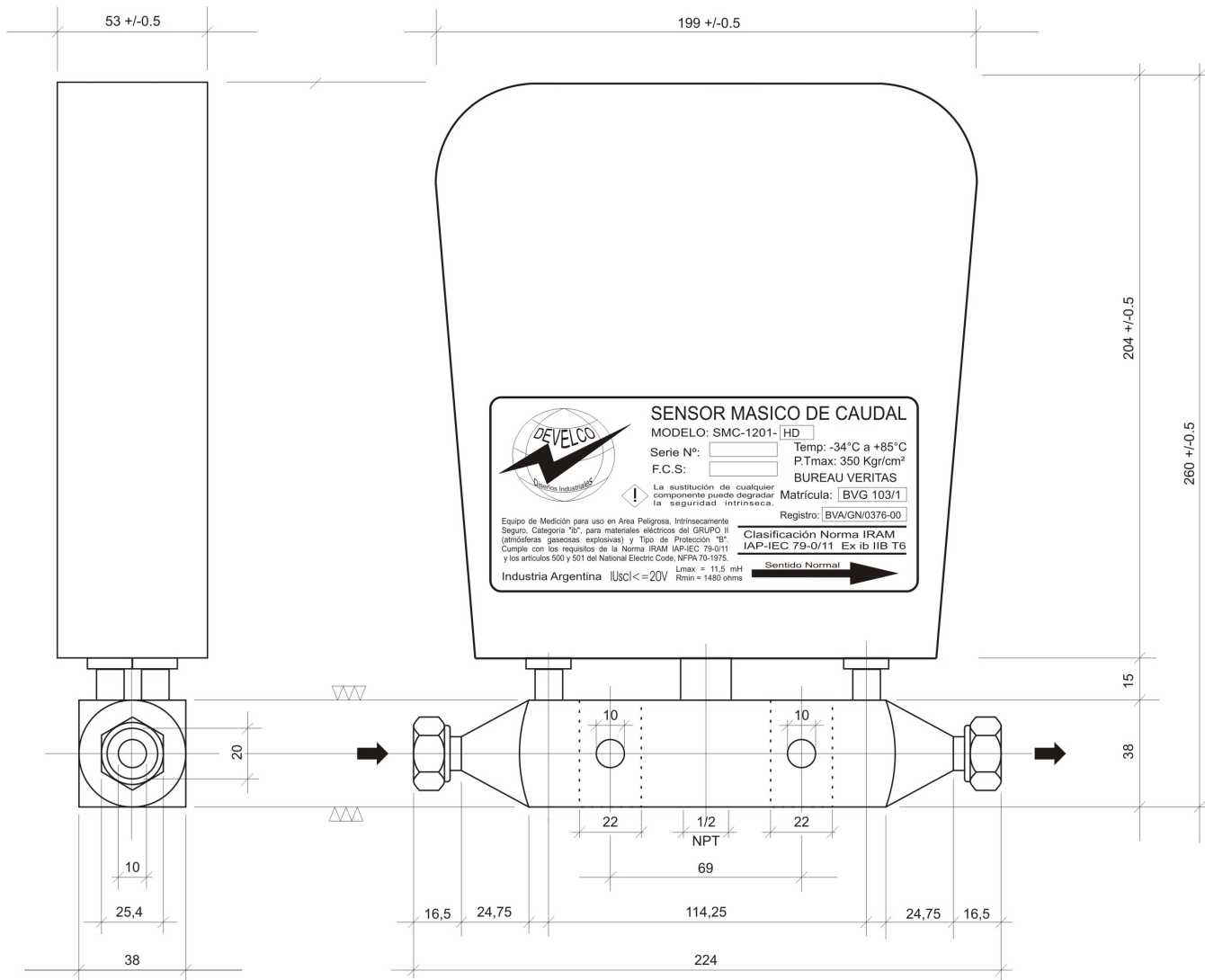
SMC-1201 Flow Sensor Technical Specifications

Main Measurement Variable	Flow.
Variables Measured and Reported	Flow rate, mass and volume totalizer, density and temperature.
Measurement Method	Coriolis type with Digital Phase Millesimal Resolver.
Maximum Flow Rate	15 Kg/min Model D (Low Flow) and 30Kg/min Model H (Medium Flow)
Minimum Flow Rate	0,5 Kg/min.
Resolution	Typical 1 G., configurable by the user according to the technical needs of fields device.
Accuracy	Factory Calibrated better than 0,5 %, it can be adjusted by the user.
Zero Stability	0,003 Kg/min from -30 to 70°C.
Measurement Uncertainty	Less than 0,5/0,25 % for gases/liquids fluids over all dinamic range from -30 to 70°C.

SMC-1201 Flow Sensor Operating Specifications

Fluid Type	Gases or liquids of low viscocity.	
Material of construction	Wetted parts	Stainless Steel AISI 316L.
	Sensor Case	Stainless Steel AISI 304.
	Sensor Base	Stainless Steel AISI 304L.
Maximum Operation Pressure	350 Kg/cm.	
Case Sealing	IP68 Protection according to IEC-60529.	
Oscillation Frecuency of Diapason	From 200 to 270 Hz.	
Operating Temperature	-40 C° to + 80 C°.	
Electrical Safety	Intrinsically Safe Equipment Standard Classification IRAM-IAP-IEC 79-0/11 Ex "ib" IIB T4.	

Mass Flowmeter Dimensions



Note: measurements in millimeters.

***For more information contact us, our
After-Sales Service is at your disposal.***

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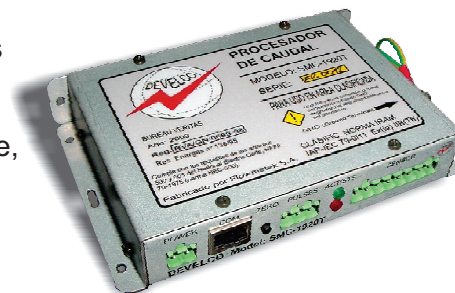
SMC-1920T Flow Processor.

The SMC-1920T Flow Processor is a new generation in DSP Technology, leading the Coriolis flowmeters to another level of efficiency. The SMC-1920T control, processes data and translates the electrical signal phase difference of the Mass Sensor Coils to quantified values of mass.

It has analog output pulse and digital interfaces which behaviour can be properly programmed via Software, Hardware, or a combination of both.

The SMC-1920T is compatible with all Flow Mass Sensor models produced for our company, providing an excellent Hardware/Software upgrade service.

The units already installed will have a significant improvement in their performance and never become obsoletes.



Power Specifications of the SMC-1920T Flow Processor.

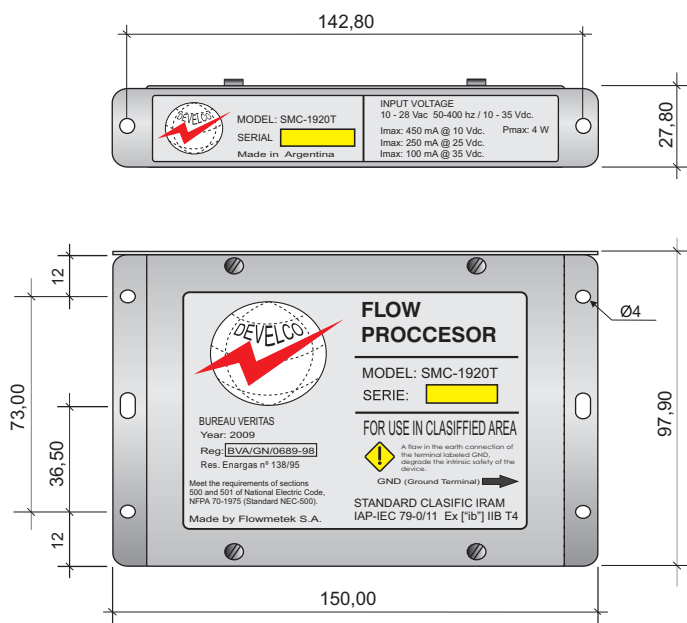
Input Voltage	10 - 28 Vac 50/400 Hz / 10 - 35 Vdc.
Maximum Current	Imax: 450ma @ 10 Vdc. Imax: 250ma @ 25 Vdc. Imax: 100ma @ 35 Vdc.
Maximum Power	Less 4 watt in any condition.
Electrical Safety	Intrinsically Safe according to Standard Classification IRAM-IAP-IEC 79-0/11 Ex ["ib"] IIB T4.

Features Signal Output of SMC-1920T Flow Processor.

Analog Output	Pulse Output.
Signal	Active or Pasive Standard Signal Pulse, configurable by Hardware.
Amplitude Pulse	5 or 12 V positives in Active Mode, configurable by Hardware.
Pulse Width	Duty cycle automatically adjusted to 50% up to 50 msec pulse width.
Frecuency Output	Configurable by Software to 2Khz máx.
Impedance Output	660 ohm +/- 10% in active mode.
Digital Output	Serial Data Communication Channel.
Port 1	Standard RS-232 Half Duplex, compatible with VT100 terminals (can be used under Windows with the operating system standard application, Hyper Terminal).
Port 2	Standard RS-485 Half Duplex. It use the Develco proprietary protocol to communicate with the SMC-1900P Hand Held, or with the User Application.



SMC-1920T Flow Processor Dimensions.



Measurement expressed in millimeters.

Connection Diagram SMC-1920T Flow Processor.

