

IS-Max and IS-Pro Series

INTRINSICALLY SAFE FLOW AND PRESSURE METERS AND CONTROLLERS

Metering and control
of flow and pressure,
unified.

DEKRA
C 23CAUS40-127215 US

North American

DEKRA 23CAUS40-127215

Class I, Div 1, Groups A-D T4, Ex ia

Class I, Zone 0, AEx/Ex ia IIC T4 Ga

Tamb -20° C to +70° C

ATEX / IECEx

DEKRA 22ATEX0075 X

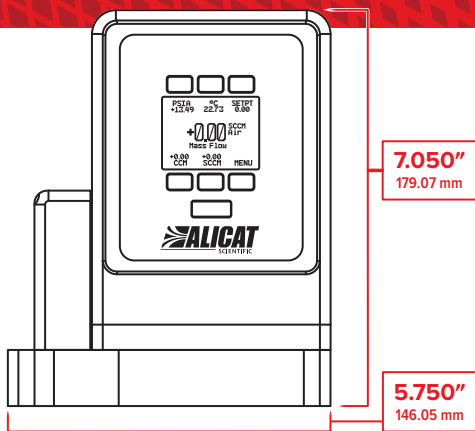
IECEx DEK 22.0078 X

 II 1 G Ex ia IIC T4 Ga

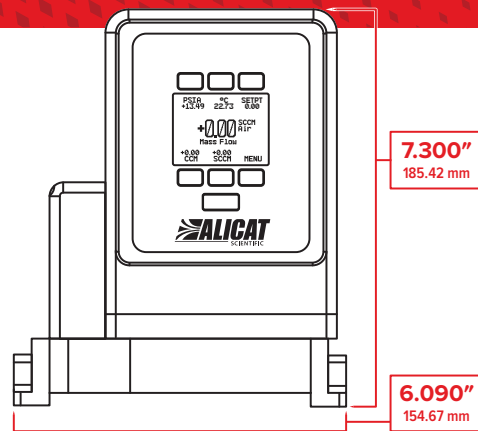
Tamb -20° C to +70° C



Standard configuration



NeSSI SP76 compatible



The only intrinsically safe flow instrument to also control pressure for ATEX/IECEx and North America

The world's first CID1, Zone 0 mass flow controller

- ▶ IS-Max can meter flow while controlling pressure to reduce system complexity of GCs
- ▶ Get 24/7, real-time data reporting in hazardous locations, and don't miss a thing when analyzing gases from refineries and petrochemical plants
- ▶ Rely on a lifetime warranty and free technical support
- ▶ Save space and reduce maintenance costs with a Zone 0 certified, compact, fully-integrated device —no purge cabinet needed
- ▶ Improve efficiency with repeatable flow and pressure, unaffected by fluctuating process conditions in contrast to inconsistent rotameters
- ▶ Use the front panel display to read live measurements and easily make adjustments in the field
- ▶ Choose from digital communications options MODBUS; ASCII—or control/verify with current
- ▶ Get consistent and accurate sample batching that can be configured on site

The next step in the evolution of flow control for your applications



- ▶ Gas chromatography analyzers
- ▶ Gas mixing/blending
- ▶ Gas calibration
- ▶ Pilot control over dome loaded regulator
- ▶ Tunable diode laser analyzers
- ▶ O₂ and H₂ analyzers
- ▶ Moisture analyzers
- ▶ FTIR and NDIR analyzers
- ▶ CEMS analyzers
- ▶ Vent gas flow and pressure control

Features

Intrinsically safe

Certified and tested for environments known to be potentially combustible 24/7, 365 days a year.

Minimal maintenance required

Rugged industrial design with IP66 enclosure that is impact-resistant, dust-tight, and able to withstand powerful jets of water without damage.

Customizable monitoring and control

Continuously measure flow, absolute or gauge pressure, temperature, barometric pressure and dew point while controlling flow or pressure to meet your application needs.

Suite of firmware capabilities

Easy to use and versatile, with features such as totalizer and batching, field-selectable gas calibration, autotune control optimization, and digital alarms.

IS-Max IP-66 rated flow instruments

Specifications	Ranges		
	0.5–5 SCCM	10 SCCM–20 SLPM	50–250 SLPM (METERS 50–5000 SLPM)
NIST-traceable calibration	Standard accuracy: ± 0.8% of reading and ± 0.2% of full scale High accuracy: ± 0.4% of reading and ± 0.2% of full scale	Standard accuracy: ± 0.6% of reading or ± 0.1% of full scale, whichever is greater High accuracy: ± 0.5% of reading or ± 0.1% of full scale, whichever is greater	Standard accuracy: ± 0.8% of reading and ± 0.2% of full scale High accuracy: ± 0.4% of reading and ± 0.2% of full scale
Communications	4 – 20 mA, RS-232, RS-485 ASCII and Modbus RTU		
Measurement and control range	0.01 – 100% of full scale (10,000:1 turndown ratio)		
Operating temperature range	-20 – 70 °C		
Operating pressure full scale	11.5 – 160 PSIA ISM-CQ-Series: 11.5 – 320 PSIA		

- ▶ High pressure (up to 320 PSIA) and low pressure-drop options available.
- ▶ Media-isolated (caustic gas resistant) version available to handle up to 128 gases.



IS-Pro IP-66 rated pressure instruments

Accuracy at calibration conditions	Standard accuracy: ± 0.25% of full scale High accuracy: ± 0.125% of full scale
Communications	4 – 20 mA, RS-232, RS-485 ASCII and Modbus RTU
Measurement and control range	0.01 – 100% of full scale (10,000:1 turndown ratio)
Operating temperature range	-20 – 70 °C
Maximum common mode usage pressure	≤ 100 PSID models: 200 PSIG 500 PSID models: 750 PSIG

- ▶ High pressure options (up to 1500 PSIG) available.
- ▶ Media-isolated (caustic gas resistant) version available to handle up to 128 gases.

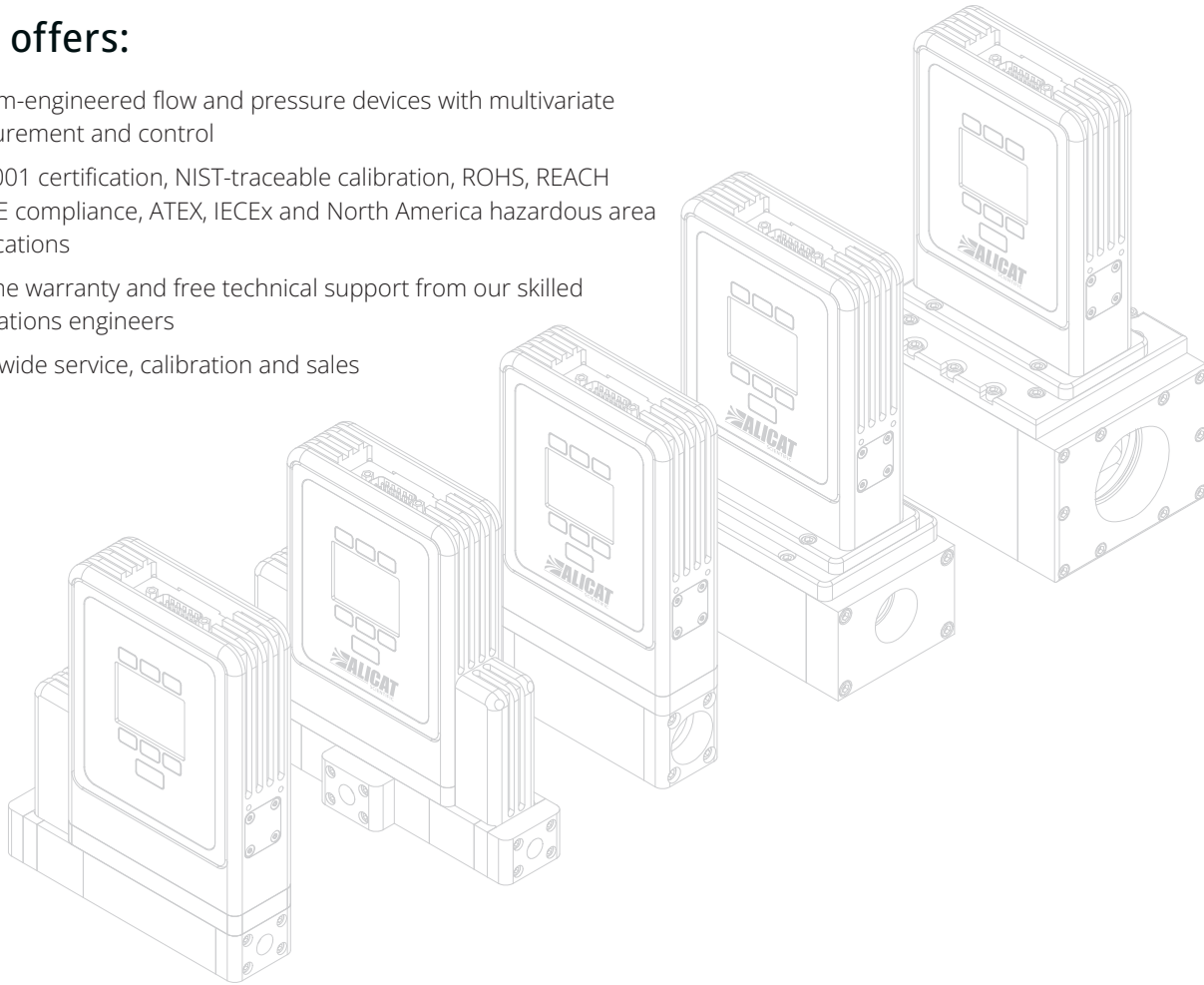


Do what you want, faster.

Since 1991, Alicat has worked closely with those at the forefront of scientific discovery and technological development. We provide fast instruments, fast delivery, and fast answers so you can focus on getting fast results.

Alicat offers:

- ▶ Custom-engineered flow and pressure devices with multivariate measurement and control
- ▶ ISO 9001 certification, NIST-traceable calibration, ROHS, REACH and CE compliance, ATEX, IECEx and North America hazardous area certifications
- ▶ Lifetime warranty and free technical support from our skilled applications engineers
- ▶ Worldwide service, calibration and sales



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