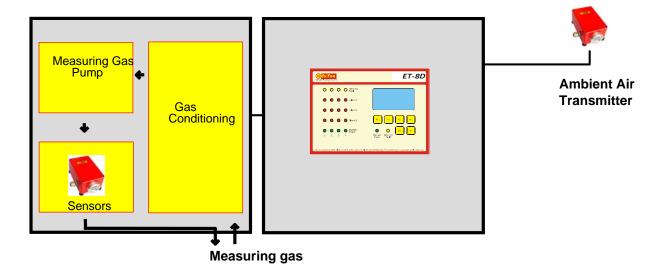
## Integral Measuring Concept IMC-8D(A)2

Article-No.: 420106 (420107)





Description	<ul> <li>Integral Measuring Concept:</li> <li>Sampling and conditioning of measured gas, transmitter and evaluation combined in one compact wall mounted housing.</li> <li>At the same time possibility of continuous monitoring of ambient air.</li> <li>Eight 4-20 mA-Outputs (only 420107: IMC-8DA2)</li> </ul>
Features	
Transmitter	<ul> <li>Number: 1 to 8</li> <li>Allocation of transmitter inputs to analysis including sampling and conditioning of measured gas as well as monitoring of ambient air freely selectable</li> <li>Selection out of ExTox-Series Sens(-I) and ExSens(-I)</li> </ul>
Signal Processing	<ul> <li>Control Unit ET-8D or ET-8DA for 8 transmitter inputs, incl. 20 freely configurable relay outputs and serial interface; additionally control of sampling and conditioning of measured gas as well as evaluation of status messages.</li> <li>Software Extension IMC</li> <li>Continuous monitoring of ambient air</li> </ul>
Sampling of Measured Gas	<ul> <li>Gas suction pump and electronic flow rate monitoring</li> <li>Maximum length of sample line ≥ 50 m</li> <li>Manual condensate trap</li> <li>Magnetic valve to change from measured gas to test gas</li> <li>Hosing: PE/PP</li> <li>Dust filter</li> </ul>
Connections	At the bottom of the housing for 4/6-Hose (inner / outer Ø: 4/6 mm)  3 glands for measured gas inlet, test gas and gas outlet  1 gland for condensate outlet
Operation Temperature Pressure at sampling point	+5 °C to $+40$ °C $-100$ hPa (relative to ambient)
Mechanical Features	
Dimensions Housing	Standard version: 760 mm x 600 mm x 350 mm (Height x Width x Depth) Wall mounted housing with door, mounting plate, foamed-in door sealing, 2 cam locks
Material	Steel, powder-coated in textured RAL 7035
O1: .: .:	

Storage Temperature **Electrical Features** 

230 V AC

Power Supply

Climatisation

Cable Gland

Power Supply 230 V AC/24 V DC, 120 W integrated

At the bottom of the housing

1  $\times$  M20  $\times$  1.5 (diameter of cable 7-13 mm) 10 x M16 x 1.5 (diameter of cable 5-10 mm)

Terminal Assignment

Power supply

Central connection PCB for transmitter and digital inputs and relay outputs

2 fans, rotary speed monitored (at the same time leakage protection) -25 °C to +60 °C

## Integral Measuring Concept IMC-8D(A)2

Article-No.: 420106 (420107)

## **Options**

Monitoring of Ambient Air:

A continuous monitoring of ambient air can also be realised via external ExTox-Transmitters.

• Flame Arrestor © IIG IIB3 (Standard) or © IIG IIC:

When sampling in hazardous areas the gas flow inside the IMC is decoupled of the monitored process as far as the danger of explosion is concerned. The flame arrestor is connected to the measured gas inlet. When returning the measured gas into the process another flame arrestor at the measured gas outlet is necessary.

Condensate trap incl. Hose pump:

Removal of condensate is automatically done by hose pump.

Measured gas cooler including automatic removal of condensate:

Gas dehumidification by means of a Peltier cooler, temperature of measured gas at outlet: +5 °C (Recommended for very high humidity content in measured gas.)

· Hydrophobic dehumidification of measured gas:

Dehumidification of gas is done via a chemical exchange process. (Recommended for very high humidity content in measured gas.)

Heating for enclosure with thermostat control +5 to +30 °C :

Necessary for very low temperatures at the place of application. Formation of condensate inside the housing is avoided when installing the IMC outside.

ProfiBus<sup>®</sup>-Connection:

Measured values and messages can be transferred to a ProfiBus® via Interface. (Further connections to superior systems on request).

Data Logger:

Measured values and messages are stored on a SD memory card. All data can be read out and processed on every standard PC later on.

Customer specific modifications – Ask us!

Different applications also require different monitoring concepts. The modular design of our IMC-Systems allows us to respond to your special wishes and requirements.

This Data Sheet is at the same time a type specific supplement to the Instruction Manual ExTox Integral Measuring Concept Series IMC-8 and IMC-4.

(Subject to technical changes)