



SMART3G-C3 gas detector is designed to meet industrial requirements; the enclosure is explosion proof and can be installed in Class I, Division 2 and, when equipped with dust adapter, in Class II, Division 2.

The sensing element is placed in the stainless steel head with 40 mm diameter. The electrochemical cell is used to detect toxic gas, due to the optimal performance in these applications.

The gas detector has a 12-24 Vdc power supply and a standard 4-20 mA 3-wires output. Optionally, the SMART3G-C3 can be equipped with serial RS485 communication and a 1 or 3 relays board.

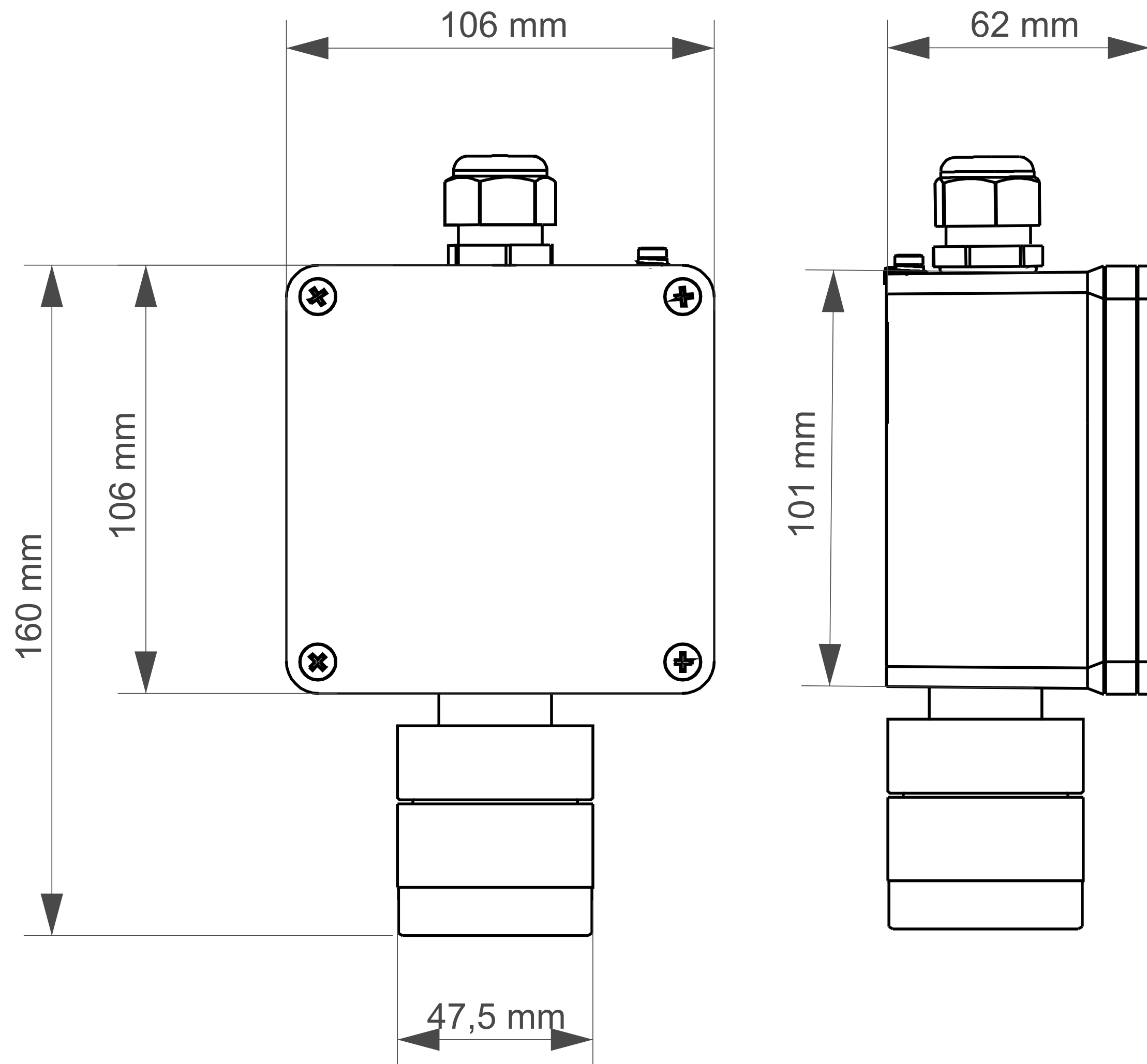
The enclosure has dimensions 106 x 160 x 62 mm, on the upper side there's a M20 cable gland.

Sensor	
Application	Industrial area, ATEX Zone 2 (Class I, Division 2) and Zone 22 (Class II, Division 2) (when equipped with dust adapter, optional)
Sensing element	Electrochemical cell
Predicted sensor lifetime	2 / 3 years
Gas detected	O ₂ [0-25% Vol], CO [0-500/1000 ppm], NH ₃ [0-100/200/1000/5000 ppm], H ₂ S [0-50/100 ppm], NO [0 - 100 ppm]; H ₂ [0 - 2000/3000 ppm]
Electrical data	
Power supply	12-24 Vdc
Output	Analogue 4-20 mA output; 1 or 3 relay board (optional); serial RS485 output (optional)
Maximum dissipated power	5.4 W
Relays contact ratings	1.0 A at 24 Vdc (optional board)
Optical indications	-
Acoustic indications	-
Hall effect sensor	-
Environmental conditions	
Storage temperature	32 / +68°F up to six months
Operating temperature	-22 / +122°F
Operating humidity	15 / 90% RH non condensing

External case	
Material	Enclosure: Aluminium Sensor head: stainless steel
Protection mode	Ex e: Increased safety protection mode Ex nC: Enclosed equipment protection mode Ex d : Explosion proof enclosure Ex t : Equipment dust ignition protection by enclosure (when equipped with dust adapter, optional)
Dimensions	4.17 x 4.17 x 2.44 in
Weight	36 oz
Cable entries	1 x M20
IP grade	IP55 (certification pending)
Compliance	
EMC	EN 61000-6-3:2007 + A1:2011; EN 50270:2015
ATEX (certification pending)	ATEX directive 2014/34/EU EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN 60079-15:2010 EN 60079-31:2014
SIL	EN 61508:2010 Parts 1, 2, 3, 4, 5, 6, 7 EN50402:2017
Product codes	
S2640O2	Oxygen 0 - 25% Vol gas detector
S2130CO	CO 0-500 ppm gas detector
S2130EL	C2H4 0-200 ppm gas detector
S3224AM	NH3 0-100 ppm gas detector
S2132AM	NH3 0-200 ppm gas detector
S2134AM	NH3 0-1000 ppm gas detector
S3228AM	RNH3 0-5000 ppm gas detector
S2136HS	H2S 0-50 ppm gas detector
S2144NO	NO 0-100 ppm gas detector
S3592H2	H2 0-2000 ppm gas detector
S4546H2	H2 0-3000 ppm gas detector



Mechanical drawings



STG/AD3 dust adapter

